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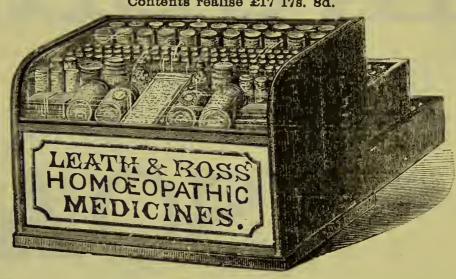
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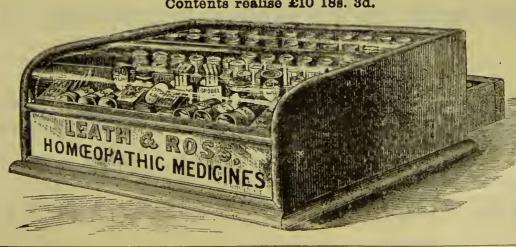
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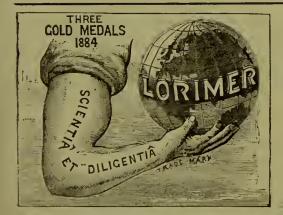
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- 5.—£500.— MIDDLESEX.—Near town; very profitable Retail and Family Business; returns about £500; shop well fitted and good stock; convenient house and garden; price about £500.

 6.—£700.—LANCASHIRE.—Good-class increasing Country Business; returns at present over £700 yearly; small house; low rent; about £600 required; worth attention.
- 7.—£1,000.—NORTH OF ENGLAND.—Mixed Retail, Proscribing, and Ready-money Business; returns over £1,000 last year; not profit nearly £300; large double fronted shop and good stock; low rental; very convenient premises; price £575.

- 8.—£1 000.—EASTERN COUNTIES.—Old-established good-class Business; situate in first-class position in a good market town; returns £1,000 yearly; double-fronted shop and large house; may be rented or purchased; valuation only required.
- 9.-£1,250.-WEST OF ENGLAND.-First-class Retail and Dispensing Business; returns nearly £1,250; net profits over £500 yearly; large handsome shop and good stock; full particulars on receipt of
- 10.—£600.—HANTS —Large town; good-class Retail and Dispensing Business; returns £600 yearly, with good profits; handsome corner shop and good stock; price £500—part can be paid by instalments if wisbed.
- 11.—£900.—LANCASHIR E.—Good-class Dispensing and General trade; returns nearly £900 yearly; net profits above the average; well-fitted shop and good stock; large house; price £550.
- shop and good stock; large house; price 2500.

 12.—£840.—HOME COUNTY.—Large town, about one hour from Loudon; Retail and Dispensing Business; corner shop, in main thoroughfare; returns average nearly £840; good bouse, low rental; price, to include some valuable proprietary articles, about £800.
- 13.—£561.—HUNTS.—Unopposed Country Business of good class (Mixed); returns last year £561, with good profits; single-fronted well-fitted shop and good stock; price to an immediate purchaser £390.

 14.—£1,000—GLOUCESTERSHIRE.—Good market town; first-class Retail and Dispensing Business; returns at present nearly £1,000; bandsomely-fitted shop and good stock; about £950 required.

Personal applicants may receive particulars of businesses not advertised.

N.B.-NO CHARGE TO PURCHASERS.

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Invites vendors to submit particulars of businesses for disposal, having cash purchasers for businesses of all kinds, especially good-class country. P. C. B. offors skilled assistance to gentlemen about to purchase. Most buyers would save the cost incurred many times over, and often avoid serious error. Terms strictly moderate.

Mannfacturing town, Statiordshire.—A prosperous and rapidly increasing gonnine Cash Retail, returning over £1,000, and showing net profit over £400; good hou-e and shop, well stocked; every facility for investigation; price about the value of stock and fixtures, under £800; this is recommended as a money-making business in good going order.

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MIDLANDS. — Returns £750; High-class Retail and Dispensing;

price £700.

LANCASHIRE.—Returns £600; Light Retail and Prescribing; low LIVERPOOL .- Dispensing and Light Retail; returns over £600:

EASTERN COUNTIES. — Death vacancy; Country Retail, with wines and spirits, in good market town; returns £1,600; valuation about

 $\mathbf{WANTED}.-\mathrm{First\text{-}elass}$ Retail, returning from £1,500 to £3,000. State casb price.

BUSINESSES FOR DISPOSAL.

3s. 6d. for fifty words; 6d. for every 10 words beyond,

To Chemists and Druggists.—Shop and Residence in a respectable and populous neighbourhood; no chemist within the radius of a mile; rent £50. Apply to Andrew Hart, 192 High Street, Stoke Newington.

LONDON.—Main thoroughfare; corner abop; immense traffic; Postoffice attached pays rent and taxes; old-established; changed hands twico lu 50 years; Retail, Dispensing, and Prescribing Business; large profits; rent and taxes low; good honse; price £600; loug lease, "Chemicus," 19 Chapter Road, Kenniugton.

A READY-MONEY Mixed Business, situate in a flourishing town; returning £800; satisfactory reasons for disposal. For particulars apply, with reference, to "Vaseline," care of Messrs. Barron, Equire & Co., Bush Lane, Cannon Street, London, E.C.

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ESSEX.—Snburb of London.—A valuable Retail, Prescribing, and Dispensing Business; established 25 years; returns average for last aix years £740; net profits over £300; full prices; no opposition; owner entering the Dental profession; only cash purchasers with £700 need apply. "Dena," Office of the Chemist and Dudugist, 42 Caunen Street,

SOUTH-WEST of England —Light Retail, Dispensing, and Prescribing Business, In small market town, with large surrounding district, returning £700 at full prices; nothing heavy; reut £30; lease granted by vendor; enuse of sale, taking larger business; price £450; shop is thoroughly well fitted and stockel. "Bromide," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

DENTAL Practice in a large Midlaud town; receipts nearly £500; rent £25; prico £250. Dental Practice, West End; eatablished 20 years; receipts between £800 and £900; half share £450.—Dental Suburban Practice; receipts about £500; will be sold on easy terms to an immediate purebaser, on account of broken health. Apply to W. Hornlbrock, 17 Bloomsbury Street, Oxford Street, W.C.

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NORTH OF ENGLAND. A good roady-money Retail and Dispensing; returns £500 under a Junior; low rental; price £350.

MIDLANDS.—Old-established Retail and Prescribing trade; returns £800, much neglected; price £350, or valuation of stock and fixtures.

SURREY.—Good-class Retall and Dispensing; returns £1,000; net profit £350; price £850; good house and garden.

LONDON, S.E.—Rendy-money Retail and Dispensing, well sitnate in marketing thoroughfaro; returns £850 by assistant; price £700.

LONDON, N.W.—Neglected Brauch, doing natil lately £9 a week; stock and fixtures worth £250; price only £160, or offer; capital chance for beginners.

Valuations for Probate or Transfer conducted in any part of the United Kingdom. Terms upon application.

BUSINESSES FOR DISPOSAL—Continued.

A SMALL ready-money Country Business for disposal, altuated in a leading thoroughfare in Crewe; antisfactory reasons for disposal. Apply, B, 3 Clayton square, Liverpool.

N good market town in Norfolk.—Through illness of proprietor, an oldestablished Family Bosiness; returns £1 000. For particulars apply, Smith & Sons, 44, 46 and 48 Magdalen Street, Norwieh.

KENT.—For immediate disposal by valuation of stock and fixtures, a small Business; established over 50 years; no other Chemist within 3 miles; lock-up shop; rent £10; population 2,000. Apply to "Chemist," Green Street, Teynham, Keut.

GOOD-CLASS Light Retail and Dispensing Business for sale in East Yorkshire; genuine going concern; incoming easy to eash pur-ebaser; good stock, nicely fitted, and several good selling proprieturies; trial allowed if desired. Apply, E., 21 Leonard Street, Hull.

YORKSHIRE.—Mixed Business, returning over £500, at good profits; in thoroughfare; good house and shop; price £350; good proprictarics and teeth-extracting with prescribing; ns a going concern. Apply, "Mixed Business," Office of THE CHEMIST AND DRUGGIST, 42 Canuon

A RECENTLY-ESTABLISHED Branch Business for disposal; alrendy returning £4, which can be greatly increased; densely populated neighbourhood; will be sold at a great sacrifice. Apply, personally or by letter, to "Chemist," care of Mr. Davy, 25 St. Leonard's Street, Bromley-by-Bow, E. No agents.

DISPENSARY and small Chemise's Retail, situate near the Victoria Docky, London; doing £300 per annum under assistant; owner musble to give attention; will be sold for about £80 cash, to include lease, stock, and fixtures. Apply to "Surgeon," Dakin Bros., Export Druggists, Cree Church Lane, Leafenhall Street, E.C.

DENTAL Princice, well established and nuopposed, in a favourite senside town of 20,000 inhabitants, and many thousand visitors; profits £600 a year; low rent; price £400.—Dental, West-ead nucleus; receip's £300 a year; price £100. Applications to Wm. Hornibrook, Medical Agency, 17 Bloomsbury Street, Oxford Street.

£150.—For immediate disposal, an old-established Business In a Mmket Town in the Midlands; returned in its best days over £700, but of late has been sadly neglected; stock and fixtures valued at £250; satisfactory reasona given for disposal. Apply, "Cetaceum," Office of The Chemist and Druggist, 42 Chunon Street, E.O.

HULL.—A Light Retail and Prescribing Business, well-established, for immediate disposal, in consequence of owner having purchased a business in country; returns £300; very profitable; good house, 8 rooms; rent only £19 10s.; price £160, including bouse, fixtures, gasfittings, fixed buth, &c. Apply "Aloe," Loftbouse & Saltmer, Hull.

URGENT.—Proprietor's other engagements compel immediate disposal of established Retail and Prescribing Business in Monchester; doing increasing trade; good profits; house and shop attached; rent £30; lease; valuable proprietaries; returns £300; reasonable offer accepted, Apply, 212/29, Office of The Chemist and Druggist, 42, Cannon Street, E.C.

WEST-END.—Good old-established Business; corner shop, large bouse, private entrance; lease just renewed at £150 premium; rent £80; let off £60; Prescribing and Retail; returns, under assistant, about £500; under proper management could do splendid; trade bas done £1200; proprietor retiring; good opening for medical man; no opposition. W. D., Wright, Layman & Umney, 50 Southwark Street, S.E.

TO CHEMIST'S AND DRUGGISTS.—A Finmily Retail, Dispensing and Agricultural Business, established over 80 years, in hands of present tenant over 19 years, and situate in the best part of a large market and residential town in Yorkshire; the premises, which are well ndapted for me extensive trade, and which contain handsome shop, warehouses, office, and exceptionally good living accommodation, garden, &c., are also for sale at £1,500, £1,200 of which can be had on permanent mortgage at 4½ per cent., or premises can be seened on lease at a very low rental of £75 with option of sub-letting an adjoining lock-up shop at £18; returns £1,500 with good profits; stock at valuation, estimated at cost £600; fixtures £190. Address, "Drugs," care of Frank Flotcher, Leeds.

BUSINESS WANTED.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

A FIRST. CLASS Dispensing and Retall; must be a genuino business; about £1.000; state reut, size of house, returns, price, and where situated; preference would be given to the West of England or South Wales. Mr. Thurgood, 41 Wind Street, Swansea.

TENDER.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

FULHAM VESTRY.

TO MANUFACTURERS OF DISINFECTANTS.

TO MANUFACTURERS OF DISINFECTANTS.

NOTICE is hereby given that the Vestry of the Parish of Fulham will be prepared, at their meeting, to be held on Wednesday, the 6th day of March, 1889, to receive Tenders for the supply of Disinfectants for the twelve months ending 25th March, 1890.

Tenders must be made on printed forms provided by the Vestry, sealed and endorsed "Tender for Disinfectants," and delivered at the Vestry office by 4 o'clock p.m., on Wednesday, the 6th March, 1889.

The Vestry does not pledge itself to accept the lowest or any Tender.

By order, CHAS. J. FOAKES.

Vestry Offices, Walham Green, S.W.

Clerk to the Vestry.

SALES BY AUCTION.

3s. 6d. for fifty words: 6d. for every 10 words beyond.

LINCOLNSHIRE.—Market town.—A very valuable Leasehold Residence, with Chemist's Shop and extensive Warchouses and garden, all in excellent condition, will be offered for Sale by Auction on Monday, March 4. The purchaser will have the option of taking over the stock and fixtures at valuation: established over 50 years; returns about £1800, and profits about £600 per annum. Immediate application requested to A. C. Farmer, Chemist and Valuer, Southborough, Tunbridge Wells.

TO CHEMISTS AND OTHERS.—SPILSBY, LINCOLNSHIRE.

TO CHEMISTS AND OTHERS.—SPILSBY, LINCOLNSHIRE.

TO be Sold by Auction by Mr. Robert Macknider, at the White Hart Hotel in Spilsby, on Monday, the 4th day of March, 1839, at 3 o'clock in the afternoon precisely, subject to conditions of sale to be then produced, the following very desirable Leasehold Property, viz.:—A convenient and well built Dwelling-honse with the Chemist's Shop adjoining, situate in the High Street in Spilsby, together with the warehouses and other outbuildings lying behind the same. The premises bave an extensive frontage towards the south upon the High Street, and towards the north upon a road, and contain 8,338 square feet or thereabouts. The whole of the buildings are of modern construction, and are in the best possible state of repair. The dwelling-house contains 3 sitting-rooms, 10 bedrooms, 2 kitchens, pantries and cellars, and all conveniences. The chemist's shop, which is large and well lighted, is fitted with plate-glass windows and every modern improvement.

A first-class Family Business of Chemist and Druggist bas been conducted here very profitably for upwards of half a century by the late Edward Ramey, and since his death by his Trustee.

The property is held under a lease from the late Baroness Willoughby de Eresby for a term of 70 years, commencing 11th October, 1874, at the annual rent of £20.

To view, apply to Mr. Ramey, on the premises; and for all further information apply to Mr. Jas. Eve, Haugham, near Louth, one of the Trustees for sale; to the Anctioneer, Spilsby; or at our offices, where the conditions of sale can be seen three days before the day of sale.

ALLISONS & ALLISONS, Solicitors.

N.B.—The purchaser of this property will have an opportunity of arranging with the late Edward Ramey's Trustee to take the book-debts

Lonth, February 19, 1889.

N.B.—The purchaser of this property will have an opportunity of arranging with the late Edward Ramey's Trustee to take the book-debts belonging to such business, and the internal fittings and trade fixtures in and about the shop and premises and the stock-iu-trade at a valuation.

Possessiou will be given on 6th April next.

TO LET.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

TO CHEMISTS.—House and Shop, in first-class position in main road, close to Finsbury Park Station. Apply by letter to Estate Office, 92A Isledon Road, Finsbury Park, N.; or for key to view, to Mr. Rayner, 204 Seveu Sisters Road, Finsbury Park, N.

SITUATIONS OPEN.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

A SSISTANT, outdoor, carly in March; state age, salary, references, experience, to Heckett, Pharmaceutleal Chemlst, Scarboro'.

JUNIOR, for the Country (Notts), until April 14; hours 8 to 7, Saturdays 9.30 P.M.; Indoors. Apply, J. Agar, Moutford Place, Kennington Green, S.E.

QUALIFIED Assistant; one accustomed to the laboratory preferred; salary commencing £100; outdoor. Mawson, Swan & Weddell, Newcastle-on-Tyne.

WANTED, an Assistant to manage a Branch (indoor). Addross, stating age, height, references, salary, &c., to R. Simon, 57 Browniow Hill, Liverpool.

WANTED immediately, a qualified Assistant, capable of managing in absence of principal; no Sanday duty. Apply, personally preferred, at 193 Brixton Road.

WANTED, a amart qualified Manager (outdoors), for a cash Chemist's Business in Yorkshiro. State particulars to 245/3, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

ANTED, a Man, handy, smart, and intelligent, of mechanical turn, to carry on experiments on pressure filtration, &c. Apply, by letter only, "Filter," Housekeeper, 8 Nov Broad Street, E.C.

PRUG Trade. Youth wanted; use I to Capping, Labelling, and Wrapping Bottles. State experience, age, and salary required, to "Drug," Office of The Chemist and Druggist, 42 Chinon Street, E.C.

WANTED an Assistant for a few months, in Mixed trade; a good Junior not objected to. Apply, with references, salary required, experience, and age, J. W. Watkinson, Farnworth, near Bolton.

WANTED, Junior Assistant (outdoors); able to Dispense, Prescribe, and left occasionally in charge. Apply, by letter, stating salary, age, height, with references, enclosing photo, to P. B., 121 Charterhouse Street, London, E.O.

WANTED, at once, Junior for Counter, Drug Department, Haymurket Stores; outdoors; hours 9 to 7; must have passed Prolim. Apoly, by letter only, stating salary required, &c., to "The Chemist," 28 Haymarket, S.W.

TRAVELLER.—Wanted, at once, an active, intelligent gentleman with first-class connection amongst Surgeons, Hospitals, and Public Institutions. Address, with full particulars. "Progress," Office of The Chemist and Dauggist, 42 Cannon Street, E.C.

A SSISTANT, registered, or Minor qualification, able to Extract Teetb, for country business, with post-office, South of England. Apply, withreferences and photo, stating salary required, to "Rhei," Office of THE CHEMIST AND DAUGGIST 42 Cannon Street, E.C.

CHEMIST'S Assistant for the Straits Settlements; must have passed the Minor examination, and have had experience in General, Retail, and Dispensing Business; are about 25; good reference required. For particulars apply to A. Durunt & Co.. 89 Gresham Street, London.

WANTED, a good Junior Assistant, who thoroughly understands a Mixed Business—oils, paints, &c. Apply, stating salary, age, height, and references, which must bear strict investigation, and enclose photo, to J. Day, Chemist, Savile Town, Dewsbury, and at Thornhill Lees.

WANTED, qualified Manager for small light Retail; he must be well recommended, of good business ability, proficient in tooth extraction, prescribing, &c., and single; board and residence offered. Apply, stating salary required, age, and enclosing photo and references, to J. B., care of Messrs. Burton, Solicitors, Yarmouth, Norfolk.

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1s. for twelve words; 6d. for every six words beyond.

WHOLESALE.—Had 3 years' Retail; aged 20; tall. A. Paine, New

JUNIOR; 22; 5 years' experience; passed Prellm. W. Smith, 2 Hallgate, Doncaster.

UNIOR; disengaged; £28; height 5 feet 8 inches; abstaincr. B., 11 Eastfield Road, Louth.

WHOLESALE; wet counter; good London reference. "Drugs," 127 New Kent Road, S.E.

MANAGER or Assistant; good Mixed Business; married. W., 50 Malton Street, Oldham.

A SSISTANT; part or whole time; London; aged 27; disengaged. X., 298 Uxbridge Road, W.

As Qualified Manager to Drug Company Stores; experienced. Williams, Post Office, Cardiff.

A SSISTANT or Dispenser; aged 25; good references. S. H. T., 52 Harrow Road, Paddington. A SSISTANT; varied experience; aged 27. "Chemicus," 14 Thoruton Street, Brixton Road, S.W.

A SSISTANT, Manager; qualified; married. "Chemicus," 9 Prospect Villa, Smith Street, Hanley, Staff.

As Junior or Improver; aged 18; abstainer; good references. A. M., 3? Kingsdown Road, Upper Holloway, N.

WANTED, situation as Junior; indoors or outdoors, Apply, E. F. M., 50 Egerton Road, Bishopston, Bristol.

TRAVELLER or Temporary (40); registered; varied experience; references. Williams, 70 Ledbury Road. W.

UNIOR; aged 20; height 5 ft. 8 ln.; 4 years' experience; good references; abstainer. J. S. Warren, Wellingboro'.

As Assistant or Branch Manager; good exportence and references; and discount of the control of t

Assistant; Wholesale or Retail, or as Dispenser to Surgeon; good references. "Tempo," 153 Essex Road, Islington.

ARIS.—Minor, West-end experience, desires a situation with Euglish or French firm. "Beta," 5 Midland Road, Bedford.

AS Junior; aged 22; till; Minor; 5 years' experience; good references; salary andary. White, Park Villa, Grinisby.

JUNIOR; 201; dlengaged; abstalner; Midlands preferred; passed Prelim. "Medicus, 'care of Ab) of & Lane, Nottlingham.

WHOLESALE; exp rienced; 6j years' with large firm, 10 years Retail. "Wholesale," 14 Monthelier Row, Kulghtsbridge.

As as: tant, with a good knawledgo of Mechanical Dentistry. X., Office of The Chemist and Druggist, 42 Cannon Street, E.C.

JUNIOR in Dispensing at d Family Business; suburbs of Londou preferred; good references. W. Mattin, 7 Station Road, Beech s.

JUNIOR; aged 21; tall; 5 years' first-class experience; good references; disengaged. C. B., High Street, Wivenhoe, Colchester.

A SSISTANT or Manager (28); active and oh'lging; Midlands pre-terred; permanency. Frost, Stono Street, Oldbury, Birmingham.

PARTIAL or Temporary; well up in all branches of Dentistry, "Rad," Office of The Chemist and Druggist, 42 Cannon Street, E.C.

MANAGER or Dispenser, temporary or permanent; Surgeon's or Chemist's. James Dunkerly, M.P.S., 13 Prestbury Road, Upton Park, E.

A SSISTANT; in Manchester or neighbourhood preferred; aged 23; good reference. "Alphn," 32 Rocester Street, Queen's Park, Manchester.

BRANCH MANAGER or Senlor; experienced Dispenser; good references; qualified; disengaged. J. C., care of Mr. Robins, Woodford. Essex.

WAREHOUSEMAN or Sundryman; 7 years' reference; Wholesale Druggist; 10 years abstainer. G. Hawkins, 8 Ordehall Street, Bloomsbury.

A SSISTANT; 25; in first-class busine's, West-end or suburbs; 8 years' experience; in or outdoors. T. D., 4 Rose Villas, Merton Road, Merton, Surrey.

WHOLESALE Drug Trade, Wet Counter; required by an experienced man a situation as above. Apply to E. B., 14 Linghum Street, Stockwell, S.W.

JUNIOR: disengaged; tall; 4 years' experience; knowledge of Photography and French; references. Mirtlew, Curzou House, Norman Road, Southsea.

AS Town Traveller, to represent my branch of the Trade; tall; energetic; aged 26; on part salary and commission. "Town Traveller," 4 George Street, Euston Road.

CCUM-TENENS; experienced; abstainer; good references; duty conscientiously discharged. "Veritas," Mr. Titmas, Chemist, Rosmnond Street West, Manchester.

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A SSISTANT (24) desires berth in Wholesale House; 8 years' experience (retail); first-class references; 3 years in lust engagement. "Ped.," 12 Morlidge Street, Humberstone Road, Leiester.

WHOLESALE.—Situation wanted by experienced man; aged 32; Minor qualification; would travel if required. Address, "Ashlar," Office of THE CHRMIST AND DRUGGIST, 42 Cannon Street, E.C.

BRANCH Manager or Senior; aged 30; married; good Counterman, Prescriber, and Dispenser; London and country experience; disengaged. "Chemiens," 12 Wyadham Street, Ycovil, Somerset.

A GENTLEMAN, who purposes calling upon Chemists in the Australian Colonies and the Cape, will be pleased to take up one or two commissions. T. J. S., 50 Amersham Raad, New Cross, S.E.

A S Manager or Senior; aged 30; married; well up in Tooth Extracting and Prescribing; of good address; now disengaged; London preferred; unqualified; East and West-end experience. "Alrite," 20 Mark Street, West Ham Lane, Stratford, London.

WANTED, a situation in a good class Dispensing and general Retall, with view to purchase (optional); net profit not less than £30) to £450 yearly; Southport, Bolton, Blackburn or district—west prrt of the town or London, W., preferred. "Chemiens," care of Hearon, Squire & Francis, 5 Coleman Street, E.C.

TRAVELLER.—Wanted engagement, about March; having represented a firm for the last 7 years throughout England, Ireland, and Seotland, ealling upon Physicians and Chemists; has a good connection; first-class references from samo firm; aged 33. Address, T. G. M., Office of The Chemist and Dauggist, 42 Oppnon Street, E.C.

Manufacturing Chemists and Wholesale Druggist.—Wanted, by a Young Lady of good education, employment as Clerk; 8 years' office experience, and has for some time heen engaged in a large firm of mannfacturing chemists, from whom she can obtain good references; well up in Bookkeeping, French, general Office work, with knowledge of Shorthaud. Address, R. D., 505 Commercial Road, E.

MISCELLANEOUS.

Special charges are made for Advertisements under this heading, which can be obtained on application.

FOR SALE, about 100 Wicker-covered Glass Carboys, of German make, containing from 12 to 13 gallons each. Apply, B. V., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

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IHEMISTS can save from 50 to 75 per cent. by Manufacturing their own Perfumes.—To be disposed of, recipes for manufacturing the following Perfumes, which are easily made: Kiss Me Quick, Balm of a Thousand Flowers, Frangipanni, Jockey Club, Ladies' Own, Upper Ten, Cologne (a nice article), Florida Water; price 1s. 6d. each, 4 for 5s., 8 for 10s., with which will be given the original recipe for Browne's Troches. E. Grand, 17 Alexandra Road,

ECHANICAL DENTISTRY of every description executed for Chamistant executed for Chemists at most reasonable terms, from 18. 6d. per tooth; an experienced Surgeon-Dentist will visit and instruct Chemists in Dentistry in any Branch, enabling them to attach this lucrative Business to Pharmacy; agents wanted on mutual terms; show-cases and specimens supplied. "Odontorium," 305 Mile End Road, London.

PRELIMINARY AND MINOR.

ALL Students who are preparing should send for particulars of a method of study which will enable them to pass with ease. Enclose stamped envelope to Mr. J. Tully (Hills Prizeman), Chemist, Hastings. Established 1872. References to past and present Pupils. 32 Pupils passed the last Examinations.

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SPECIAL NOTICE TO ENTERPRISING CHEMISTS.

ESSRS, GILLINGWATER & CO desire to appoint one Agent in each district for the sale of their World-renowned Hair Dyes—Black, Brown, and Golden. Profits cent. per cent. Ask Gillingwaters to quote you for Dye packed under your own name. Two hundred per cent. Profit on your sales! If you publish an Almanack orn Price List, send sample, with price for alvertising space, to Gillingwater & Co. Regent Works, Turlo Road, Tollington Park, London.

Gillingwater's 3s. 6d. Hair Dye, Wholesale price 21s. per doz.

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Write to-day for Illustrated Guide, "How to open respectably from £20 to £1,000," post free. "Tobacconists' Ontfitting Co." (Reg.), Braimes' Buildings, 11 Beech St. London, E.C. HENRY MYERS, MANAGER.

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Fig. 6.



Fig. 8A.

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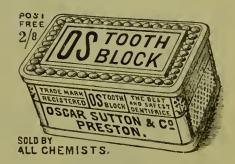
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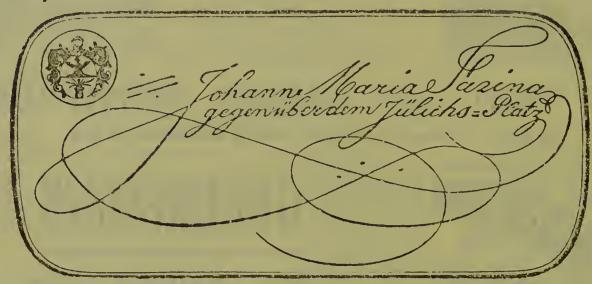


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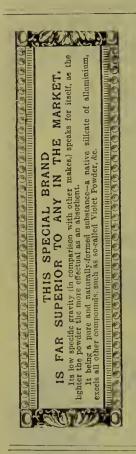
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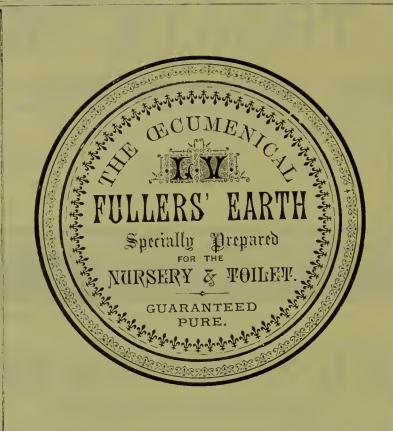
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ROYAL COILEGE OF SUPOEONS, STEPHEN'S GREEN, DUBLIN, IIth September, 1888.

IIth September, 1888.

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2 PINT. 3 PINT. Caned, each ... 7/ 8/ 12/520/9 2 PINT. 3 PINT. 5 PINT. 8 PINT. 6/6Wired, each ... 7/9 11/9 18/11

&2 worth or more, 5 per cent. discount.

MAY, ROBERTS & CO., 9 CLERKENWELL ROAD, LONDON, E.C.



Sold Retail in Bottles, 2/9 and 4/6 each.

May be had prepared with choice Port (Oporto Wine), Sherry, Claret, or superior unfermented juice of the Grape (non-alcoholic), with or without Quinine, Pepsine, or Iron, as desired, at same prices.

This preparation proves its superiority over all others of a like kind, wherever it is introduced, and is becoming every day more prescribed by Medical gentlemen to take precedence as the most perfect form of concentrated nourishment.

We will send a sample, carriage paid, to any address on application, as we feel sure no idea can be formed as to what degree of perfection has been attained until this preparation is tried.

List of Testimonials, copy of Analyst's Reports, and Trade Prices on application.

HASSALL & CO., 7 ST. ANN'S STREET, MANCHESTER.

BRAND & CO.'S

PEPTONES

OF

BEEF,

MUTTON,

YEAL,

AND

CHICKEN.

CONCENTRATED OF BELTON

BEEF TEA, VEAL, MUTTON & CHICKEN BROTHS;

TURTLE SOUP & JELLY, GALFS FOOS

JELLY, MEAT LOZENGES 11 LITTLE STANHOPE STREET. MAYFAIR, W. CONCENTRATER W. CONCENTRATE OF THE STANHOPE STREET. MAYFAIR, W. CONCENTRATE OF THE STREET.

To H.R.H. The Prince of Wales, The Empress of Germany, &c.





To secure this article ask for

FRY'S PURE

CONCENTRATED

Cocoa

EIGHT PRIZE MEDALS AWARDED

HOUSEHOLD SPECIALITIES.

YORKSHIRE RELISH.

Most Delicious Sauce in the World. Bottles, 6d., 1s., and 2s. cach

GOODALL'S BAKING POWDER.

The Best in the World. 1d. Packets; 6d., 1s., 2s. and 5s. Tins.

GOODALL'S EGG POWDER.

One 6d. Tiu is equal to 25 eggs. In 1d. Packets; 6d., 1s., and 5s. Tins.

GOODALL'S CUSTARD POWDER.

Delicious Custards without Eggs. In Boxes, 2d., 6d., and 1s. cach

GOODALL'S BLANCMANGE POWDER

Delicious Blancmange in a Few Minutes. Boxes, 6d. and 1s. each.

GOODALL'S QUININE WINE, B.P.

Best Tonic yet Introduced. Bottles, 6d., 1s. and 2s. each.

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Makes the Best Ginger-Beer. Packets, 3d. and 6d.

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For Painting Stoves, Grates, Iron, Tin, &c. 6d. and 1s. Bottles.

GOODALL'S LAVENDER WATER.

A Rich and Lasting Perfume. Bottles, 1s., 2s., and 5s. each.

GOODALL'S PLATE POWDER,

For Polishing and Cleaning all Metals. Boxes, 6d., 1s. and 2s.

GOODALL'S JELLY SQUARES

Make a Delicious and Nutritious Jelly. In 1- and 1-pint boxes, 3d. and 6d. each.

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PATENT MEDICINES

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DRUGGISTS' SUNDRIES.

Monthly Price List of Patent Medicines, Druggists' Sundries, &c, will be sent post free on application to

GOODALL, BACKHOUSE & CO., LEEDS.

TO THE

CHEMISTS & DRUGGISTS

OF

GREAT BRITAIN.

COLEMAN,

GEORGE'S, NORWICH.

St. George's, Middle St. NORWIOH, December, 1887.

The Excise Authorities having created a difficulty as to the sale of Medicated Wine containing a certain percentage of alcohol, we obtained in January last, from the Inland Revenue Authorities, permission to sell our Liebig's Extract of Meat and Malt Wine, WITH QUININE, without a Wine Licence, and many Chemists not holding a Wine Licence have sold considerable quantities. In order further to meet the requirements of the trade, we have introduced a Liebig's Extract of Meat and Malt Wine, NON-Alcoholic, made from the juice of the Grape, Liebig's Extract of Meat, and Extract of Malt. This also can be SOLD WITHOUT A WINE LICENCE. Your orders will oblige either direct or through the Wholesale Houses.

Yours obediently,

COLEMAN & CO., LIMITED.

N.B.—The Wine Is sold in Bottles, 2/9 and 4/6 each.

Trade prices on application.

P.S.—Where the Licence is not held we are willing to pay the entire cost of a Retail Licence (the holder of which can sell any kind of Wines) if an assorted order of 6 dozen is sent us of any of our preparations. List on application. Our Liebig's Extract of Meat and Malt Wine WITHOUT QUININE commands a very large sale, and is recommended by over one thousand medical men who have sent us testimonials in its favour.

SOLE MANUFACTURERS-

COLEMAN & CO., LIMITED,

ST. GEORGE'S, NORWICH,

AND 3 NEW LONDON STREET, LONDON, E.C.

KERFOOT'S PEARL CACHOUS.

These beautiful little lozenges, perfectly spherical in form, weighing about 400 to the ounce, of exquisite flavour and great strength, are the most popular and perfect breath lozenges ever introduced; unlike the ordinary flat lozenges, these little Pearls have no angles to attract dust and become soiled with a slight handling, consequently they can be carried in the purse or pocket, and are altogether more portable than ordinary lozenges.

The unique appearance and flavour of this novelty quickly ensured a large sale, and its success, as might have been anticipated, quickly brought to the front some worthless imitations, the sale of which can only vesult in disappointment to all concerned.

KERFOOT'S Pearl Cachous

are the only genuine PEARL CACHOUS: they are not only better looking, but are double the strength of the imitations, and buyers are therefore requested to order the original, and thus ensure a perfect article. They are elegantly put up in attractive one-pound bottles, and are an ornament to any Pharmacy. The following flavours are always in stock-

Clove Pink. Ess. Bouquet. Frangipanni. Heliotrope. Jockey Club.

Lavender. Musk. Rose. Rondeletia. Violet.

Price 2s. 9d. per lb. in 1-lb. bottles.

Eight bottles sent carriage free to any part of the Kingdom.

T. KERFOOT,

MANUFACTURING PHARMACEUTICAL CHEMIST.

Medlock Vale Works, Berry Street, And Albion Works, Hague Street.

MANCHESTER.

London Depot, St. Paul's Chambers, 19 Ludgate Hill. Agent, Mr. HENRY C. QUELCH.

FACTI PROFIT WITHOUT

No better investment can be desired than purchasing BROOKS'S RELIABLE RECIPES, which have had an increasing sale during last 10 years. It is a FACT that Chemists have made £5 profit in 3 months by one recipe alone.

For centralisation of business (owing to increase), I have removed to 74 Turnpike Lane, Hornsey, N., where all com-

munications must be sent.

munications must be sent.

"Glycerine Cream," an elegant preparation for roughness of skin, in valuable at all scaside resorts, certain sale; "Entirely New Remedy fo Toothache," gives instant ease, not injurious to other teeth: "Nigerine, jet black, waterproof patent blacking, cheaper, sweeter, and better than Nubian; "Digestive Relish," best and cheapest sance in creation, from 3 gallon; "Limes and Glyceriae," elegant, creamy, snow-white, quite in separable, pronounced best in market; "Rheumatic Embrocation," most excellent, cannot be surpassed in cheapness and efficacy; "Blood-purifying Powder" (London surgeon's recipe), popular spring and autumn remedy; "Anti-spasmodic Elixir," simple, reliable, always efficacious; "Camomile and Quinine Pills," for indigestion, &c., frequently preferred to Norton's; "Effervescent Deparative Saline," facsimile of Eno's, costs 10d. lb., entirely soluble, keeps well; "Cryptzymosis," certain speedy cure for gleet, &c.; "Mist. Gonorrhea" (capivi), nansoous taste masked, unfalling remedy; "Hnir-restorer" (sine sulphur), clear, sweet, economical, condidently recommended; "Liver Pills" (vegetable), gentle action, always effectual; "Lavender Water," superb fragrance, lastiag, equals Salasbury's; "Occasional Pills" (for ladies), most reliable, preferred to Widow Welsh's; "Essence for Deafness," simple and effectual; "Podophyllin and Taraxacum," pleasant taste, vastly superior to similar preparations; "Pile Powders and Ointment," cure and prevent hæmorrhoids; "Quinine and Iron Tonic," bright and unchangeable, resembles Peppers; "Worm Syrup," entirely vegetable, pleasant and rapid action; "Ringworm Specific," certain rapid cure; "The Pills," unequalled in efficacy, many testimonials; "Chlorodyne," inseparatiole, perfectly soluble, quite equals Brown's; "Marking Iuk," indelible, no waste, creditable to seller; "Fumigating Ozonic Ribbon," cheapest, sweetest, perfect disinfectant.

Recipes, 7d. each; 6 for 2s. 8d.; 25 for 10s., post free, with full directions, doses, uses, and all particulars. List of 400 free.

T. BROOKS, Chemist, 74 TURNPIKE LANE, HORNSEY, N.

Savaresse's

SAVARESSE'S CAPSULES. SANDAL WOOD: COPAIBA.

Savaresse's Capsules of membrane, each containing 15 drops Pure Maran-ham Copsiba Balsam, or, also of membrane, each containing 10 drops Purest Yellow Sandal Wood Oil. The efficacy of these valuable medicines is due to the absolute purity of the Balsam or Oil, and to the very gradual solvability of the membrane as compared with gelatine.

Copalbs, 2s. 6d., 18s. doz. Sandal, 4s. 6d., 36s. dox.

SAVARS CUBEB

SAVARS GUBER CIGARETTES.

Cubebs, Stramonium, and Cannabis Ind. (soothing). Relief in Asthma, Throat Cough, Bronchitis, Influenza. A specific against Fogs.

Boxes (12) 1s., 9s. per doz.; (36) 2s. 6d., 24s. per doz. Full Directions.

EVANS, LESCHER & WEBB, LONDON.

LIVERPOOL:

MONTREAL:

EVANS, SONS & CO. EVANS AND SONS (Lim.)



KANGRA VALLEY INDIAN TEA GROWERS' ASSOCIATION.

French & Langdale, 14 St. Dunstan's Hill, London, E.C.

Guaranteed to be Absolutely Pure, as supplied to Europeans in India.

Packed in 1-lb., 2-lb., and 2-lb. Tinfoil-lined Packets.

No. 1, Orange Pekoe, at 4/ per lb. No. 2, Pekoe, at 3/ per lb. No. 3, Pekoe Souchong, at 2/6 per lb. No. 4, Souchong, at 2/ per lb.

Export Prices in Bond, 6d. per lb. less than above, specially packed in 1-lb. air-tight lead packets, in chests of 40 or 80 lbs. Wholesale Discount on Nos. 1, 2, and 3, 17½ per cent.; on No. 4, 12½ per cent. 50 lbs. Carriage Paid. No Travellers empleyed. Tasting Samples on application.

These Teas are recommended to Chemists not only on account of their Purity, but because they are Less Astringent than other Indian Teas

Should write for samples and terms (post free) of the Delicious Spring Blossom Ceylon Tea. This valuable and profitable agency is worth securing. Handsomely and spe-

cially packed for Chemists' sale in air-tight canisters. In \(\frac{1}{4}\)-lb., \(\frac{1}{a}\)-lb., and 1-lb. Canisters, to sell Retail at 2/, 2/6, and 3/ per lb. Set of three \(\frac{1}{4}\)-lb. samples post free for 2/ in stamps.

GAVE, JOHNSON & CO., WHOLESALE TEA AND COFFEE DEALERS, 8 LIME ST., LONDON, E.C.

WHOLESALE DEALERS & EXPORTERS OF TEA, COFFEE, ETC.

In original Boxes, Half Jhests, or Chests, as imported.

Juty Paid or under Bond.

Prices and Samples on application.



Or in Leaden or Foil Packets

Or in kilos., \(\fractional \) parts, for countries using these weights.

Fancy Tin Boxes any size or weight.

SPECIAL BLENDS TEA (Duty-paid prices quoted).

No. A, No. T. 10d. 11d.	No. 1,	No. 2, 1/2	No. 2a, 1/3	No. 3, 1/4	No. 3a, 1/5	No. 4, 1/6	No. 4a, 1/7½	No. 5,	No. 5a, 1/10½	No. 6,	X, 2/4	
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n Boxes, 20 lbs. or 40 lbs.; 2-Chests, 60 lbs.; or Chests, 100 lbs. 60 lbs. carriage paid to any Station in England or Wales. Terms-Net Cash with order.

CEYLON TEAS (PURE)- Culloden Grange Duty-paid Prices. Sheen Orwell Mooloya Pen-y-lan St. Ley's IN LEAD PACKAGES (2-1b., 2-1b., or 1-1b.)

Most attractively labelled. 1/8 1/10 (For Export under Bond, 6d. per 2/2 2/6

Export Department.—Teas or Coffees in Bond. Shipped to any part of the world. Terms, f.o.b. London; against tanker's oredit or remittance.

Samples, Price Current, and every information on application.

RAW COFFEES (Duty 14s. cwt.). Rio, Santos, Costa Rica, Mocha, East India, Mysore, Naidoobatum, Jamaica, 'orto Rico, Ceylon, Guatemala, Manila, Java, &c.



ROASTED COFFEES (Duty Paid).

10½d., 1/, 1/1, 1/2, 1/3, 1/4; Mocha, 1/5. In Bags, 28 lbs., 56 lbs., or 112 lbs. net. Bags free. Also supplied Ground in 7 lb., 14-lb. 28-1b., or 56-1b. tins.

THE NEW FRENCH COFFEE—CAFE FRANCAIS to sell at 10d., 1/, 1/4, and 1/6, in 1-1b., 1-1b., and 1-1b Canisters, Most tastifully labelled, without any firm's name appearing.

BLENDED TEAS,

Three Special Lines of Unapproachable Value.

Owing to the very low rates at present ruling in the Indian and Ceylon Markets. we offer at unprecedented quotations Three Teas of an exceptional character, which we guarantee to be **SKILFULLY AND CAREFULLY** selected from well-known estates, and Blended in the most approved manner.

We have not quoted these in our Price Lists, as we may not be able to match them later in the season, but we are open to contract for a **REGULAR SUPPLY** during 1889, if orders are intrusted to us not later than February 14th.

No. 1 PURE INDIAN PEKOE BLEND.

LEAF.—Full of tip and perfect appearance. LIQUOR.—Strong and thick, with very fine quality.

Price in bulk 1/5, Duty and Carriage Paid.

No. 2. CEYLON PEKOE SOUCHONG BLEND

LEAF.—Handsome and fragrant. LIQUOR.—Thick, rich, and fine.

Price in bulk 1/4. Duty and Carriage Paid.

No. 3. CEYLON FLAVOURED BLEND.

LEAF.—Some tip, handsome and even. LIQUOR.—Brisk and thick.

Price in bulk 1/3, Duty and Carriage Paid.

IMPORTANT NOTE.

We shall be pleased to pack the above Teas in Air-Tight Leaden Packets, WITH CUSTOMER'S NAME, ADDRESS, AND MARK ONLY, printed on attractive Labels (Three Colours) with Golden Letters. THE CHARGE WILL BE ONE PENNY PER LB. EXTRA.

BANKERS:-UNION BANK OF LONDON.

Telegraphic Address:-"INTACT LONDON."

J. WATSON & CO.

Tea Blenders (Wholesale Only),

14 JEWRY STREET, LONDON, E.C.

1888, C. 2877.

IN THE HIGH COURT OF JUSTICE, CHANCERY DIVISION.

MR. JUSTICE CHITTY.

MR. WARD, Regr.

Friday, the 25th day of January, 1889.

BETWEEN

COLEMAN & COMPANY (LIMITED),
PLAINTIFFS,

AND

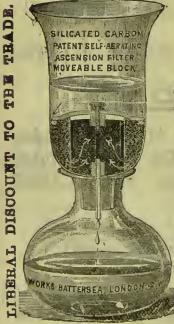
D. PEARSON (TRADING AS LIEBIG'S WINE COMPANY),
DEFENDANT.

UPON MOTION this day made unto this Court by Counsel for the Plaintiffs, that the Defendant might stand committed to Prison for his contempt of this Court by having on or about the 10th November, 1888, procured to be printed, and having purchased and published a large number of copies of an article in the Hospital Gazette, containing passages to the effect that the Plaintiffs' preparations in the writ mentioned does not contain Meat or Extract of Meat, in breach of the Injunction dated the 15th August, 1888, and upon hearing Counsel for the Defendant, and upon reading the pleadings, the order dated the 15th August, 1888, an Affidavit of William Coleman, filed the 27th December, 1888, and the exhibits therein referred to an Affidavit of William Isaac Simpson, also filed the 27th December, 1888, an Affidavit of Alfred William Wordley, filed the 10th of January, 1889, and an Affidavit of Henry Hillier, filed the 11th January, 1889, and a notice signed by D. Pearson, filed in the Registrar's Book.

And the Plaintiffs by their Counsel admitting that the Defendant has paid to them the sum of Fifty Pounds for their agreed costs of this action, and the Plaintiffs and Defendant by their Counsel consenting that this motion should be treated as a motion for Judgment, and consenting to this judgment. THIS COURT DOTH BY CONSENT ORDER that the Defendant, his Agents, Servants, Travellers and Representatives be perpetually restrained from representing or stating in any way, either verbally or in writing, and in particular either by circular or spurious experiment, or otherwise, that the Plaintiff Company's Preparation does not contain Meat or Extract of Meat, or any other ingredient stated by the Plaintiff Company to he contained therein, or otherwise slandering or libelling the Plaintiff Company in their trade, or otherwise representing, or suggesting, or doing anything calculated to represent, or suggest that the Plaintiff Company's Preparation is spurious or not genuine. Liberty to apply.

FLATNESS OF TASTE

SO COMMON IN FILTERED WATER,



OBVIATED

BY USING

SILICATED GARBON

AERATED

By means of which the water is Aerated and Filtered simultaneously, rendering it, even after boiling, Pure, Bright, and Palatable.

The Silicated Carbon Block can be Instantly Removed, leaving the whole of the Filter Open for Inspection and Cleansing.



Domestic Filters.

MOVEABLE BLOCK FILTER

TRADE

THE

TO

DISCOUNT

LIBERAI,

FOR PRICES AND FULL PARTICULARS, WRITE TO THE

SILICATED CARBON FILTER CO., BATTERSEA, LONDON, S.W.

28

And has the LARGEST SALE

of any Infant's Food in the World.



MILLIONS

of Children have been brought up exclusively upon RIDGE'S FOOD, when they could not thrive on anything else.

RIDGE'S FOOD is Satisfying. Strengthening, Soothing, Agreeable, Digestible, and Nourishing.

MANUFACTORY-Ridge's Royal Food Mills, London, N.

Telegraphic Address_ " RIDGE'S FOOD, LONDON."

Ridge's Food sets the babies on their legs, and makes them push along

TYRER'S SAUCES

THE GIANT 1d. BOTTLE OF SAUCE.

LARGEST IN THE TRADE. In Half-Gross Boxes, at 6/6 per Gross.

"BOROUGH" KETCHUP, WORCESTER, HARVEY, YORKSHIRE OR READING SAUCE.

ld. Sample Bottles, dozen parcels	••	per gro	88 5/ extr	a qual	ity 6	
" " ½ gross boxes	••	>>	5/6	91	6/	
ld. Giant Bottles, dozen parcels		22	6/	79	8/	
,, † gross boxes	•	11	6/6•	"	8/	
1-Bottles (flat or round), reputed 1-pint	***	11	16/	11	24/	
Bottles (flat or round), reputed pint		11	26/	22	32/	
1-pint Imperial Round Stoppered Bottles	••	11	30/	77	36/	
1-pint Imperial		12	50/		60/	
121-gallon Casks (casks free)		each	20/	31	32/	
			,	71	204	

ROYAL CAFÉ SAUCE.

In 8-oz. square-stoppered bottles, 48/ per gross. A rich, fruity Sauce of fine flavour, and worth especial attention, as being the most saleable in the market.

Samples of any kind Sent Free of all Cost by

TYRER, PETER The "Borough" Ketchup and Sauce Maker,

70 LONG LANE, BOROUGH, LONDON, S.E.

SCOTOH AGENCY: 113 WEST NILE STREET, GLASGOW.
Also Sold by W. & C. PANTIN, Upper Thames Street, LONDON, E.C.
BURGOYNE & CO., 16 Coleman Street, London, E.C.
JOS. TRAVERS & SONS, 119 Cannon Street, London, E.C.

CIGARS & CIGARETTES.

M. & R. PEACOCK.

Tobacco, Cigar, & Cigarette Manufacturers,

KINGSLAND ROAD, LONDON, E.

Special Packed Tobaccos

ROYAL CHARTER"

UPPER CRUST.''

Sold in Packets only.

Those who deal in these Goods, or intend doing so, should write to the above Manufacturers for Price List.



CHOCOLATE QUININE

MANUFACTURED BY THE AMSTERDAMSCHE CHININEFABRIEK.

These Tablets are made from guaranteed Pure COCOA AND SUGAR; each Tablet contains 1 Grain SULPHATE OF QUININE.

Quinine mixed with Chocolate is practically tasteless, and can be taken even by such persons who cannot digest Quinine in other forms.

BEST PREVENTIVE AGAINST FEVER, WEAKNESS, &c.

Apply for Samples DOMEIER & CO., 13 ST. MARY-AT-HILL, LONDON.

"RAMORNIE."

Extract of Meat.

to the War Office.

Write for Detailed Price List to the Australian Meat Co. 9 and 11 Finishurch Avenue, E.O.

6 lbs. Carriage Free.

SUPPLEMENT

THE ELECTRIC SUGAR BUBBLE

The bursting of this Bubble and the consequent exposure of such a gigantic fraud has once more vividly illustrated the gullibility of the British Public, and has again placed Yankee Land in an unenviable light.

Over and over again have the barefaced statements and voluble puff of American Capitalists gained the public ear and flooded the country with all sorts of valueless remedies.

This must be stopped; and the trade have now an opportunity of stemming the tide of American aggression by introducing to their customers the NEW PURE PRODUCT

BAYLEY'S WOOD OIL

An **ENGLISH REMEDY** discovered by an **ENGLISH CHEMIST**. A pure, penetrating principle which lubricates the joints, stimulates the secretion of Synovium, eradicating Rheumatism, Sciatica, Lumbago, and all allied pains.

BAYLEY'S WOOD OIL

Is no chance concoction of Transatlautic charlatanry, but its production is the outcome of scientific experiment, based on practical experience. It is no mere mixture of Turpentine and Whale Oil, but, as proved by analysis at Somerset House, is a Pure Product, and should be recommended and pushed by the trade in place of the now profitless and too frequently valueless Compound Oils and Embrocations.

BAYLEY'S WOOD OIL

Is now being extensively advertised, and is held in stock by all the leading Medicine Houses.

RETAIL, 1s. PER BOTTLE; WHOLESALE, 9s. PER DOZEN.

A Bold and Effective Enamelled Showplate, value 10s., size 60 by 40 (cost of fixing defrayed), will be forwarded to any Chemist who will undertake to have same affixed in a favourable position.

C. BAYLEY, CHEMIST, WALSALL.

COD LIVER OIL EMULSION

(BAYLEY'S)

SWEETENED WITH SACCHARIN.

Containing 50 per cent. of Finest Ice Refined Cod Liver Oil, with 4 grains each of Hypophosphite of Soda to the fluid oz.

All Chemists who have failed to prepare a satisfactory Emulsion, or are disgusted with the result of the B.P.C. form, should send for sample of this perfect and palatable preparation.

Price 1s. 2d. per lb., 1s. Win. Qts. Sample Four Stamps.

MOVE FORWARD:

QUADRUPLE YOUR RETURNS!! BY ISSUING A GOOD PRICE LIST!!!

Permission granted to copy Bayley's Medical Dictionary of Recipes, Notes, and Useful Information, together with complete Price List!!!! For advertisement or nominal charge. For specimen copy and full particulars, how to set about it, how to collect advertisements, &c., &c., send Six Stamps to

C. BAYLEY, CHEMIST, WALSALL.

Telephone Number, 1852.

Telegraphic Address-CHEMICUS LONDON.

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ADVERTISEMENTS APPEARING IN THIS ISSUE OF "THE CHEMIST AND DRUGGIST."

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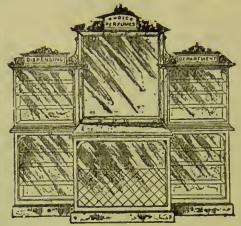
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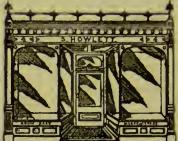
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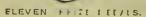
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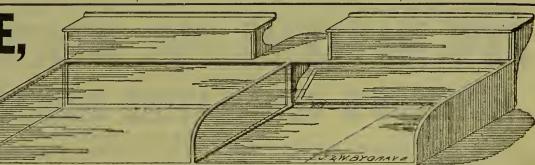
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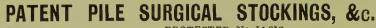
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In Knee Caps and other Appliances for Rhenmatism, Sciatica, &c., warmth, as well as support, is obtained; the Pile or Fiecee being made from Pure Natural, Scarlet, or Pine Wool.

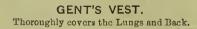
In Belts it is a great improvement, as hesides securing warmth, if required, it forms a soft surface which clings to the body and prevents rucking up and getting out of place; and does away, in most cases, with the necessity for understraps.

HAYWOOD'S PATENT SURGICAL APPLIANCES. CHEST PROTECTORS, ANTI-RHEUMATIC KNEE

CAPS, SHIN GUARDS.

Seamless Elastic Stockings, &c., no seams to irritate the Hoels and Feet. Ladies' and Gonts' Belts. Trusses and Belts for Bathing. Athlotic Supports for Wrists, Elbows, Kuees, and Anklos. Magnetic Appliances, Chest-Expanding Braces, Stocking Suspenders, Druggists' Sundries. Lists on application.

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LONDON.]

FEBRUARY 23RD.

[1889.

Our Reward.

The profession and trade have substantially recognised the services we have rendered to medicine and pharmaey in perfecting our system of compressing medicines into beautiful tiny dises, of accurately divided doses, thereby seeuring safety, palatability, convenience and preservability of drugs that had previously been administered in the form of huge boluses, nauseating powders, or sickening draughts—and these uncertain in dosage, repulsive to the palate, liable to decompose, and highly inconvenient.

In carrying out our experiments to perfect these Tabloids we have devoted a vast How we did. amount of study and labour, and ex-

pended very large sums of money.

Our efforts to introduce our improvements have been strenuously opposed by those who simply eopied (perhaps through lack of originality and barrenness of ideas) the antiquated concoctions of Resistance. their more honourable and enterprising ancestors, who had, however, in reality made but slight advance over the dark ages of pharmacy when lizards' skins and frogs' eyes were regarded as indispensable remedies. These antiquated forms, which had answered for their ancestors, they said were good enough for the present generation, and they resisted with all their might our innovations and improve-The inevitable. ments. But at last they realise that they are out of harmony with the spirit of the times, and find the resistance futile and our success an accomplished fact.

In their confusion they are content to figure as How they do. our imitators, and attempt to suck our blood by slavishly copying our labels, our packages, the wording of our circulars,

and our advertisements.

It is well known to the profession that the prime secret of our success has been quality and accuracy; our imitators in their haste for lucre The Secret of forget this feature, and rely upon misleading our supporters by substituting inferior products and clumsily copying appearance. These imitators also overlook the fact that the world is getting wise, and distrusts those who pirate their neighbours' goods and prefers the genuine and pure.

By the enormous increase of our manufactures we have been enabled to reduce our prices Pure drugs at moderate from time to time, and shall always prices. keep our prices at a moderate advance over the cost of pure drugs and skilled labour.

Dr. J. A. Marston, Deputy Surgeon General, in his

official report on the recent International Medical Congress, says :—

"These Tabloids are not more expensive than the ordinary forms of administering medicines, as they can be made at a very small advance on the crude drug."

We were the first to introduce Saccharin into this eountry, and the first to produce it Original Pure in compressed form. We were also Saccharin Tabloids. the first to adopt it for masking the

taste of offensive drugs in the compressed form (about three years since), and, after careful study, we adopted it in such cases as we found desirable.

First. We have been clumsily imitated in these saecharin products, as in other of our improvements.

TABLOIDS prepared by B. W. & Co.

TABLOIDS prepare

Aconite Tinet, 1 min.
Aloin, 1/10 gr.
Strych, 1/60 gr.
Stipation | Strych, 1/60 gr.
Stipation | Belladon, Ex. 1/8 gr.
Ipecac, 1/16 gr.
Ammon. Bremide, 5 and 10 gr.
Ammon. Chloride, 3,5 and 10 gr.
Ammon. Chloride with Borax.
Antifobrin, 2 gr.
Antimonii et Potass. Tart. 1/50 gr.
Antimonii et Potass. Tart. 1/50 gr.
Antipyrin, 5 gr.
Apomorphime Mur., 1/50 gr.
Arsenious Acid, 1/100 and 1/50 gr.
Atropin Sulph., 1/100 gr.
Belladonna Tinet., 1 min.
Bismuth Sub-nit., 5 and 10 gr.
Caffein Cirate, 1 gr.
Calcium Sulphide, 1/10 gr.
Cascara Sagrada Ext., 2 gr.
Cascara Sagrada Ext., 2 gr.
(Cascara Sagrada Ext., 1/16 gr.
Cathartic Comp., U. S. P.
Charcoal, 5 gr.
Chloramin.
Cuchouldia Salicylate, 2 gr.
Cocaine, Potash and Borax (Voice)
Digitalis Tinet., 1 min.
Digitalin, 1/100 gr.
Hydrarg. 1od. 1/10, 1/8 gr.
Hydrarg. 1od. 1/10, 1/8 gr.
Hydrarg. Perchlor., 1/100 gr.
Hydrarg. Perchlor., 1/100 gr.
Hydrarg. Subchlor. (Calomel), 1/10 gr.
Hydrarg. Subchlor. (Calomel), 1/10 gr.
Hydrarg. Subchlor. (Calomel), 1/10 gr.
Hydrarg. Subchlor. (Calomel), 5 gr.
Iron and Quintue Cit., 3 gr.
Laxalive Vegetable,
Littila Carbonato, 2 gr.
Livingstone Rousers.
Manganese Diexide, 2 gr.
Merphine Sulph., 1/20 and 1/8 gr.
Nitroglycerino.
Nux Vonica Tinet., 1 min.
Optum Tinet. (Laudanum), 2 min.
Papaln, 2 gr.
Pepsin, Pure (Fairchild).
Popsin Saccharated, 5 gr.
Power, ave supplied in each

l by B. W. & Co.

Phonacetin, 5 gr.

Pilocarpin Mur., 1/20 gr.

Pilocarpin Mur., 1/20 gr.

Piporine, 1/20 gr.

Podophyllin Rosin, 1/4 gr.

Potash Bicarh., 5 gr.

Potash Chiorate with Borax.

Potash Chiorate with Borax.

Potash Nit. (Sai Prum Un), 5 gr.

Potash Permanganate, 1 and 2 gr.

Potassin m Bodide, 5 gr.

Quinine, 1/10, 1/2, 1, 2, 3 and 5 gr.

(Quinine, 1/10, 1/2, 1, 2, 3 and 5 gr.

(Quinine Sulph., 1 gr.

Acid Arsenios.

Strychnine Sulph., 1 gr.

Acid Arsenios. 1/20 gr.

(Strychnine Sulph., 1/30 gr.

Rhei Comp. (Pil.), 3 gr.

Rhei Comp. (Pil.), 3 gr.

Rhinbarband Magnesia (Gregory Powder), 5 gr.

Rhubarband Sada, 5 gr. Rhubarband Magnesia (Greg der), 5 gr.
Rhubarb and Seda, 5 gr.
Rhubarb, 3 gr.
Sacharin, ½ gr.
Salot, 5 gr.
Santonin, ½ gr.
Soda Bicarbonato, 5 gr.
Soda Bicarbonato, 5 gr.
Soda Salicylate, 3 and 5 gr.
Soda Sulpho-carbolate, 5 gr.
Sodium Taurocholate, 4 gr.
Strophanthue Tinct., 2 min.
Sulphonal, 5 gr.
Taunin. Tainin.
Test Tabloids (Fehling's).
Tinct. Camph. Co. (Paregoric), 2 min.
Fer. Pyrophos, 2 gr.
Quining Sulph. 1 gr.
Strychnine Sulph.,
1 to gr.
Trinitrine (Nitroylycerine), 1 100 and 1.50 Trinitrine and Amyl Nitrite. Trinitrine Comp. Trinitrine Comp. (Capsicum, 1.50 gr. Menthol, 1.50 gr. Urethano, 5 gr.
Voice (Potash, Borax, and Cocaine).
Wherburg Tincture, \(\frac{1}{2} \) draw in each
Zine Sulphnte, 1 gr.
Zymine Tubloids.
Zymine Comp. Tabloids.

These pure and palatable Tabloids of Compressed Drugs are supplied in convenient packages for dispensing and at moderate prices.

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tarium for procedure in emergeneies than is elsewhere procurable.

This is the most eomplete and convenient Hypodermie Case ever introduced, and has been adopted by the leading physicians throughout the world.

B. W. & Co.'s No. 7 Hypodermic Used on the principal Case, filled and fitted complete, 15s. steamships under requirement of the new medical regulations of Board of Trade.

HYPODERMIC TABLOIDS.

PREPARED BY BURROUGHS, WELLCOME & CO.

The Lancet reports that—"they are readily soluble and not at all trittating." They present the advantages that the dose is always accurate, the active principle unchangeable, and that they are compact and perfectly soluble.

THRE OF HYPODERMIC TABLOTDS

Aconitin 1-260 gr	LIST. Each.
Aconitin 1-260 gr	r. Hydrarg, Perchlor 1-60 and 1-30 gr.
Aloin 🕯 gr	r. Hyoscyamin 1.80 and 1-10 gr.
Apomorphine 1-15 and 1-10 gr	i. Ilvoscine 1-200 and 1-75 gr.
Atropin Sulph. 1-150, 1-100, and 1-60 gr	
Uaffein Sodio-Salicylate 1-2 gr	r. and 1-3 gr.
Codein Phosphate 1-4 gr	r. Morphine Sulphate, 1-12, 1-8, 1-6,
Cocaine 1.6 gr. and 1-2 gr	
Colchicin 1-100 gr	r. Morphine and Atropin combinations.
Cornutin 1-60 gr	
Curare 1-12 gr	
Digitalin 1-100 gr	r. Sclerotinic Acid 1-2 and 1 gr.
Ergotinin 1 -150 gr. and 1-300 gr	r. Strophanthin 1-500 gr.
Eserin 1-100 gr	r. Strychnine, 1-150, 1-100, and 1-60 gr.
Eserin 1-100 gr Homatropin (unirritating) 1-250 gr	r.
	Tabloids at 12s. per dozen tubes.

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It writes almost instantly full black. Does not corrode Steel Pens.

Flows easily from the Pen.

Does not corrode Steel Pens.
Dries rapidly on the Paper.
Is cleanly to use, and not liable to blot.
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See "CHEMIST AND DRUGGIST," December 15th. 1874.

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An exceedingly active fluid pepsin. Doso, one to two teaspoonfuls with meals. Bottles, 3/, 5/6, and 10/6.

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A delicious quick restorativo; will keep in any climate. Tins, 2/ caoh.

BENGER'S PEPTONISED CHICKEN JELLY. A untritive delicacy for Invalids. Tins, 2/ each.

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For Infants, Children, and Invalids. This delicious and highly nutritive food is distinguished from others by the ease with which it can be digested and absorbed. Tins, 1/6, 2/6, 5/, and 10/.

BENGER'S NEW ESSENCE OF RENNET.

For making pure whey, junkets, &c. Bottles, 1/ cach.

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MOTTERSHEAD & CO. (S. PAINE & F. B. BENGER), PHARMACEUTICAL CHEMISTS, MANCHESTER



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South African Pharmaceutical Association.

For Australasian subscribers the subsidiary journal, The Chemist and Druggist of Australasia, is included.

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"THE HANDY BOOK OF MEDICINE-STAMP DUTY."

This work has been written for us by Mr. E. N. Alpe, of the Solicitors' Department, Inland Revenue Office, Somerset House, a gentleman who has wide experience in and intimate knowledge of administration of the Acts which regulate the sale of proprietary medicines. The Handy Book is, consequently, of exceptional value to chemists and druggists, more especially in showing how medicines are made liable to stamp-duty by labelling, circulars, and the like. Reviewers have been unanimous in stating that the work is not only

complete, but interesting and invaluable. It is as free as possible from legal phraseology, is readable, and is nicely got up. Prico 2s. 6d, or by post 2s. 9d. May be obtained through the wholesale houses in the same way as "The Art of Dispensing."

"THE ART OF DISPENSING."

THE following are extracts from recent reviews of this work to a

A very useful book which can be recommended, and deserves to be consulted by dispensers, . . . The practical aims of the author are obvious upon every page; and, as a rule, the information and advice given are trustworthy. In some cases, however, we would differ from the author; thus, we think that—in the United States, at least—aqua mentha directed in prescriptions is intended for spearmint water, but not for peppermint water (p. 19). To a mixture containing a bismuth salt and magnesia in water the addition of gnm (p. 24) cannot be recommended; syrup or glycerine is preferable, if not otherwise inadmissible. We regard the extemporaneous preparation of aromatic waters from an alcoholic solution of the oil as justifiable if intended for immediate the part of the property of the present of the prese immediate use, but not for large quantities (p. 33) to be kept in stock, because they soon turn acid. The powdering of quinine sulphate (p. 41) is of questionable utility, because it destroys the physical character of the salt, and renders it still more prone to loss of water of hydration. Silver nitrate dissolved in pure distilled water and kept out of contact with organic matter remains unchanged in the sunlight, and neither amber-tinted nor blue glass bottles are necessary for the preservation of the solution. In the putting up of prescriptions doubtless many a dispenser would differ in the use of excipients, the order of admixture, &c.; but it must be remembered that there are usually more ways than one for accomplishing a given object. . . . The external appearance of the book, in regard to paper, proof reading, and printing, is in keeping with its contents-commendable.-American Journal of Pharmacy.

The Canadian Pharmaceutical Journal, after referring to our previous publications of the same character, and the resolve to place in the hands of the dispensers an enlarged and complete work, says:—"The result has been so successful that the book has gone through three editions, in almost as many months, and in time is likely to form an indispensable part of every druggist's library." A resumé of the contents given, the reviewer proceeds:—"It is impossible to compare this work with any other of a like kind, because such does not exist. It comes to us to fill a place which has hitherto been unoccupied, and, if for this reason only, is sure to be appreciated. It has, however, the strongest claims to independent recognition as embodying the personal experience of those who understand their business, and have had every opportunity of becoming acquainted with the art of the apotheeary, not only in the old-fashioned conventional way, but with all the methods and accessories of modern pharmacy."

THE reading cases which we offer to subscribers are now used by a very large number of chemists, and are found very convenient. They keep together thirteen numbers in very tidy form, always ready for reference. By having two cases in hand the numbers of a eomplete volume are always available until the time comes for binding. We sells these eases at the office for 1s., or by parcels post 1s. 3d., or two for 2s. 3d. We cannot forward them to any house for en-



closuro, nor by any of the carriers, as in the latter we case have to pay for booking.

Metropolitan Reports.

THE STUDENTS of the Westminster College of Pharmacy nade a trip to Kew last Friday, where they had sports and were afterwards entertained by Mr. G. S. V. Wills, the Principal. That the outing was quite a success goes without saying.

THE ANNUAL DINNER of the Chemists' Assistants' Association will be held in the Venetian Salon of the Holborn Restaurant, on Thursday, February 28, at 8 P.M., when G. F. Schacht, Esq., F.C.S., has kindly consented to preside, ickets may be obtained upon application to Mr. F. Ashley Logers, 29 Chapel Street, Belgrave Square, S.W.

AGAIN MISSING.—We have it on the authority of the tissex Telegraph that William Barber, the chemist's assistant who recently figured so prominently in the Walthamstow systery, and who, upon his discharge from custody, was related in his former position, was at business as usual on Wednesday evening last week, but on Thursday the shop was not opened at the ordinary time, and no trace of Barber or swhereabouts could be obtained.

STRANGE DEATH OF A BRIXTON CHEMIST.—Mr. Edward Thomas Gower, aged 30 years, a chemist lately esiding at No. 49 Roffey Road, Brixton, died on Saturiay at St. Thomas's Hospital. The deceased was discovered in a semi-comatose state, apparently suffering from the effects of poison. He was conveyed to the hospital by a constable, where he was examined by the house physician, and the stomach-pump was used, but no traces of poison were discovered. He was placed under the care of Dr. Stone, and died shortly after his admission. Mr. Wyatt, the cooner, ordered a post-mortem examination to be made.

Suicide by Carbolic Acid.—A girl named Frances Wilson, 21, of 30 President Street, Finsbury, came home from her employment in Regent Street on Saturday, and retired to bed. She was soon afterwards found in a dying state. She had lately undergone an operation upon one of her eyes. The operation, though successful, had made the eye painful, and the deceased grew very despondent. On Thursay evening she called on her way home at two chemists, at each of which she purchased a bottle of earbolic acid. These he took with her to her room, where the contents were emptied into a cup and then drunk by her. She died an four after in great agony. At the inquest on Tuesday no cason for the action was assigned, and the girl was supposed have become deranged.

Probincial Reports.

Trems of news, and newspapers containing matters of interest to the trade, sent to the Editor, will much oblige.

BIRMINGHAM.

PERHAPS HE THOUGHT IT WAS THE LATIN TERM.—A prescription for ointment was handed in to a local chemist to be dispensed, in which linoleum was distinctly ordered. The prescription was signed by a very eminent physician of his town. Lanolin was used.

THE MEDICATED WINE CASE.—Mr. Gilbert Thonger, of Harborne, has issued a circular disavowing his claim to sympathy as defendant in the late action, and intimating that the expense fell on the makers of the wine. But Mr. I honger is incorrect in stating that his is the first of these uses in which the Excise scored a victory. They won at Bradford.

CHEMISTS AND DOCTORS.—An inquest was held last week a child eleven months old, who had been treated at two hospitals by several medical men, and lastly at Mr. Williams's homeopathic pharmacy, Campbill. The mother asked Mr. Williams for a certificate, but he refused to give one. After hearing some evidence, the jury found that the child died from inanition arising from malnutrition.

CHEMICAL ACCIDENTS. At the Printers' Ball at the Town Hall last Saturday a gentleman who was showing some chemical experiments for the amusement of the assembly managed to upset some aqua fortis over his clothes, much to his annoyance and the complete non-success of his would-be brilliant experiments. Elsewhere 1 hear of the old error, which ought to be well understood by this time, of a chemist selling some sodium to a student and covering it with wood naphtha instead of mineral naphtha. The consequences might have been serious

BIRMINGHAM MINERAL-WATER TRADE PROTECTION Association.—The fourth annual report of this association states that during the year the number of bottles brought into the stores has been about 1,934 gross, of which about 1,846 gross had been returned to members and non-members. This is an increase of about 25 per cent. on the previous year. Several successful prosecutions for wrongful using other makers' bottles had been instituted during the year, and in one case the wrong-doer was sentenced to a month's imprisonment. In addition to these cases several apologies had been obtained from other manufacturers and published for the benefit of the members and of similar associations throughout the kingdom. The council congratulated the members upon the great improvement in the income and expenditure account.

LEEDS.

DINNER.—The annual meeting and dinner of the "Yorkshire Relish" Cricket Club (Messrs. Goodall, Backhouse & Co.'s) was held on February 14 in the General Elliot, when fifty members sat down to a sumptnous repast. Mr G. T. Pearson presided, and Mr. R. Fairfoot occupied the vice-chair. A sum of 5l. having been distributed in prizes, the usnal loyal and patriotic toasts were duly pledged. Mr. J. R. Sutherland then proposed the toast of the evening, viz., "Continued Success to the Firm and the Club." The toast was honoured with enthusiasm. Afterwards a pleasant evening was spent in song and sentiment. Mr. Allsop presided at the piano.

EASTBOURNE.

CHEMISTS AND MEDICAL PRACTITIONERS.—An inquest was held on a coastgnardsman named Thomas Bailey at Eastbourne on Saturday. Mr. Shenard, the medical man who had been called in after death, deposed that life might possibly have been saved if the deceased had consulted a qualified medical practitioner, and had not, as was too often the case, trusted to the treatment of a chemist in a complicated complaint. The witness strongly condemned the habit of chemists dealing with cases requiring skilled attendance. The coroner and jury agreed, but considered that no blame attached to the chemists personally when they were consulted in preference to doctors.

LAMPETER.

A SERIOUS ACCIDENT.—While Mr. Sidney Davies was giving a lecture on chemistry before the members of the Lampeter Debating Society recently, he was in the act of demonstrating that water is composed of two gases, and was exploding soap bubbles, when, by some unaccountable means, the flame came in contact with the gas in the reservoir, and there was a loud explosion. Seventeen persons in the audience were more or less ent and scratched by the broken glass of the reservoir, and one received a piece of glass in the eye, which completely destroyed vision.

LIVERPOOL.

Large Arrival of Lime Juice.—The *Hilda* has just arrived in the Mersey from Montserrat, W.I., bringing 480 puncheous, or about 50,000 gallons, of lime-juice for Messrs. Evans, Sons & Co. This is the first arrival of new juice this year.

ANOTHER CARBOLIC-ACID SUICIDE.—On Monday night a woman named Margaret Gaunt, living with her husband

and family at 16 Dryden Street, committed suicide by taking a quantity of carbolic acid. The deceased, who was thirtysix years of age, took the poison when she went to bed. No cause is assigned for the suicide. Deceased was not an intemperate woman.

MICROSCOPICAL SOCIETY RECEPTION AND SOIREE.—The president of the Microscopical Society (Mr. Isaac C. Thompson, F.L.S., F.R.M.S.) and Mrs. Thompson gave a conversazione on Friday evening last in the Royal Institution, the company numbering about 160, and some sixty microscopes were exhibited by members of the Microscopical Society. The Microscopical Society now numbers about 140 members, and is in its twenty-first year.

THE CREAM OF TARTAR CASE. The chemists here think that there was special leniency shown to the grocers who sold cream of tartar adulterated to the extent of 33 per cent. (reported in your columns last week), as compared with previous prosecutions against chemists, such, for example, as selling an article like the ever-changing spirit of nitre, slightly deficient in nitrous ether, which may or may not affect its activity. Why the public analyst should have gone out of his way to learn whether the vendor and wholesale dealer knew whether the article was adulterated, and why he suggested a withdrawal of the prosecution is not clear, and the usefulness of the prosecution, even as a warning, was much stultified by the nature of the adulterant being kept secret. Truly the ways of public analysts are mysterious.

HYDROPHOBIA.—Liverpool and its neighbourhood has sent several patients to the Pasteur Institute with the best possible results. One very marked case occurred at Fairfield about nine months since, when a rabid dog bit several children, and to save others a woman, with heroic courage, attacked the dog and secured its destruction, being herself badly wounded about her arms and breast by so doing. Notwithstanding the best medical skill, several of the children subsequently died, whilst Mrs. Atkinson, who was at once taken to Paris for treatment, is alive and well. A Parliamentary paper recently issued gives the number of British subjects treated at the Pasteur Institute during the last two years as sixty-four, of whom five only have died, these being very bad cases, and all died within one month of being bitten. During 1888 M. Pasteur had twenty-one British subjects under treatment without a single death occurring amongst them up to the present. Seeing that a commission from this country has investigated and reported favourably on the treatment, and that several English medical men have endorsed this report, it does seem that the time has arrived when not only in the metropolis, but in large centres like Liverpool, a ward should be set apart in one principal hospital for the Pasteur prevention or treatment of rabies.

MANCHESTER.

MR. THOMAS JACKSON, pharmaceutical chemist, 43 Great Ducie Street. Strangeways, has been served with a summons, as a result of the evidence given at the inquest reported in our columns last week.

SIR HENRY ROSCOE, Emeritus professor of chemistry in the Owens College, was, on Saturday night last, presented with an address from his old students, who at the same time presented Lady Roscoe with a fine portrait of her husband painted by Herkomer. Sir Henry, in acknowledging the honeur done to him, said that although much of his time was now devoted to politics, he hoped that he might still do some useful scientific work, if not in pure science—although he did not relinquish hope in regard to that—at least in helping forward the educational movement, to which he had already devoted some time.

OLDHAM.

SMOKING CONCERT.—The members of the Oldham Pharmacy Students' Association held their first smoking concert at the Swan Hotel, High Street, on Tuesday evening, Mr. Granville Wood presiding. There was a good programme, and altogether the evening was a most enjoyable one

SAFFRON WALDEN.

SUICIDE OF A CHEMIST'S ASSISTANT.— On Saturday morning Andrew Reed Caldwell, assistant to Mr. J. Gilling, chemist and druggist, committed suicide with prassic acid. He was twenty-seven years of age, and had been with Mr. Gilling between two and three years. A part of his duties was to act as dispenser at the hospital, where he supped and lodged, taking his other meals at his employer's. On Saturday morning he left the hospital and walked down to business at the usual hour, and at nine o'clock Mr. Gilling left him in sole charge while he attended a meeting of the Highways and Sanitary Committee of the Town Council. Mrs. Gilling, noticing a customer in the shop and seeing Mr. Caldwell was not there, opened the door leading into the small office behind the shop, and was horrified to find the unfortunate young man lying on the floor. She obtained immediate assisfance, and a medical man arrived in a few minutes. An empty prussie acid bottle was found by the side of the corpse. eason could be ascertained for the action of the deceased, but it is assumed that his mind had become deranged by over-study and anxiety respecting his examinations. Deceased was a Good Templar, a communicant at the parish church, and had been a Sunday-school teacher.

SHEFFIELD.

Business Change.—Mr. Griffin, chemist, Nether Edgerhas disposed of his business to Mr. Smith, assistant with Mr. Jervis, of Broomhill. We understand that Mr. Griffin, who is leaving the town, intends to take up the travelling department in the future.

PROFESSOR WANKLYN and the Corporation of this town have been at loggerheads. The eminent chemist analysed some samples of water for the authorities, who refused to pay his fees, on the ground that he had not followed instructions, and he had to recover in a court of law. It seems that Professor Wanklyn found the town water to be free from lead, but it readily took up the metal when a piece was immersed in it, and he concluded that a very long time would have to elapse before the whole contents of a lead eistern became poisonous, but that pipes filled with this water might render their contents poisonous in the course of a single night.

STROOD.

CHEMISTS v. DOCTORS.—At an inquest held here last week on a child of ten weeks, named George John Martin, who died before a doctor was called in, but whose mother had consulted Mr. Stevens, of Strood, chemist, and obtained some syrup of squills for him. Dr. Packman spoke strongly against children being prescribed for by chemists or other unqualified persons. He was satisfied that death was due to natural causes, probably a convulsive fit. Hundreds of lives of young children were, in his opinion, sacrificed through persons consulting chemists instead of a qualified medical man. A verdict of "Death from natural causes" was returned.

IRELAND.

Professor W. N. Hartley, F.R.S., has determined that the gas in the hydrogen bottle which lately killed Mr. T. A. Bewley, of East Wall, Dublin, was a mixture of air and hydrogen. The explosion, therefore, occurred from the detenation of the mixed gases within the cylinder. There was no flaw in the cylinder.

SCOTLAND.

EDINBURGII.

MR. JOSEPH COATES, who now represents Messrs. John Ismay & Sons, Newcastle-on-Tyne, is about to transfer his services to Messrs. Raimes. Clark & Co. Mr. Coates previously represented Messrs. Raimes & Co., and is well known to chemists in Scotland.

ROYAL COLLEGE OF PHYSICIANS. At the conversazione of the Fellows this week, Messrs. Duncan, Flockhart & Co.,

Baildon & Son, and J. F. Macfarlan & Co. had, by invitation of the committee, exhibits of pharmaceutical preparations and surgical dressings. Messrs. John Mackay & Co.'s name was also on the programme, but we understand that, owing to an oversight on the part of one of the committee of the conversazione, this firm did not receive notice in time to have their exhibit forwarded. A display of apparatus from the research laboratory of the College attracted considerable attention.

GLASGOW.

PEPPER ADULTERATION.—Last week Matthew Kerr, grocer, was fined 15s. for selling \(^1_4\) lh. of pepper which was found to contain 3 per cent. of sand, 4 per cent. of mineral matter, and 7 per cent. of pepper husk. It was stated that the standard set up by the Somerset House only permitted 3! per cent. of sand and mineral matter, and Sheriff Balfonr in his remarks said if black pepper was sent over to be sold in this country with an immense proportion of earthy matter adhering to the husks, it would not do to allow such a sale to take place, because such matter might not have got in by fair means.

CHEMISTS AND DRUGGISTS' ASSOCIATION (ASSISTANTS' SECTION).—The ordinary fortnightly meeting was held in the Religious Iustitution Rooms, 177 Buchanan Street, on Thursday evening, February 14, Mr. Thomas McMaster in the chair. Two papers were read—"Homeopathy Allopathically Viewed," by Mr. T. Robinson and "Hugh Miller," hy Mr. J. McTurk. The main contention of the first paper was that Hahnemann's doctrine had been grossly travestied by its opponents, and that, judged fairly, Hahnemann must be awarded high rank among great medical reformers, since he had the perspicacity to foretell the discontinuance of blood-letting, and his simple and rational system of medicine had had the beneficent effect of moderating the worst excesses of orthodox therapy. As for the so-ealled extravagances of homœopathie pharmaey, even some of the apparently most fantastic of them were capable of satisfactory explanation. Thus recent researches in biology had proved the extreme seusitiveness of both animal and vegetable cells to infinitesimal quantities of ehemical agents; and even the much-derided homocopathic processes of trituration and dynamisation received some countenance from such facts as the ascertained efficiency of the exhibition of certain drugs in repeated minim doses (Sydney Ringer, passim), and the increased activity of hydrarg, subchlor., sulphonal, &c., after final division. Finally, the essayist claimed that the demonstrated success of the Hahnemannian principle in practice, and the simplicity and refinement of its armamentariums, sufficiently vindicated it from the misbegotten public sufficiently vindicated it from the misbegotten public verdict of being a monstrous imposture or delusion. Mr. McTurk's paper, which was more literary than scientific in method, gave an instructive résumé of the leading events in Hugh Miller's remarkable career. Both papers were followed by discussions, in which Messrs. Gilmore, Robb, and McKellar took part. The usual votes of thanks brought the meeting to a close. Professor Rumboldt Sextou is the lecturer for February 20, and his subject, "John Walton and the Atomic Theory," with diagrams and lantern illustrations, ought to draw a full attendance. lantern illustrations, ought to draw a full attendance.

FRENCH PHARMACEUTICAL NEWS.

(From our Paris Correspondent.)

DR. MALASSEZ, the director of the College de France histological laboratory, has been awarded by the Faenlty of Medicine the Lacaze prize, worth 10,000f., for his researches on tubereulosis.

M. Chatin, the former director of the Paris College of Pharmaey, was on February 17 elected a councillor-general for the Isère Department, in the canton of Tullins, his native place. He is classified, politically, as a moderate Republican.

A BITTER PUN.—L'amer Pieon—Picon's bitters, or the mother Pieou, as you like—has a great vogue here, probably because it is good, and perhaps also on account of the pun. Now a genius has started "L'amer de la fille Picon." A law-

suit will probably follow, and it is to be hoped the Courts will show no mercy on such merciless punning.

Pasteur's Probable Successor.—After the public sitting of February 18, the Academy of Sciences went into committee to hear the report on the candidates to the perpetual secretaryship. It has transpired that the commission presented only one candidate, namely, M. Berthelot. The election will take place next Monday.

Bogus American Doctors in Paris.—In consequence of complaints entered by several doctors of the Paris faculty, the police are after a number of individuals, mostly foreigners, who unlawfully practise medicine under cover of American diplomas, prohably fraudulent. M. Guillot, a magistrate, is collecting evidence in several cases which may be expected to come up at an early date before the Correctional Courts for adjudication.

THE LIGHT OF SHOOTING STARS.—While commenting on a memoir presented to the Academy of Seicnees, M. Cornu gave it as his opinion that the light emitted by shooting stars is not due to conflagration or to the heat of impact. In those high regions our atmosphere is too unsubstantial to render the explanation acceptable. It is much more likely the phenomenon is one of static electricity developed by simple friction, and it is well known that rarefied gases can be made to glow intensely with but very little electric fluid.

ACADEMICAL LAUREATE COME TO GRIEF. - Dr. Sordes, the mayor of Tarare, near Lyons, and a Radical of the most approved pattern, has been since 1879 the physicianinspector of the assisted children in his district. suspicion was lately aroused, and on overhauling his accounts he was found to have charged for over thousand visits made to children either dead or withdrawn In consequence, he appeared last week from the list. before the Rhône Court of Assizes, and in his defence claimed he had acted in good faith, but press of business caused him to neglect his bookkeeping. Nevertheless, on February 17 he was senteneed to six months' imprisonment. The curious part of the affair is that not long since Dr. Sordes was awarded a prize by the Academy of Medicine for an essay, in which he demonstrated that the death-rate of assisted children could be rendered smaller than that of infants in their parents' care. The basis of the memoir was the very statistics now declared fraudulent by the Courts. And yet it is said figures never lie.

More Examinations for Army Pharmacists.—By one of the last orders issued before the fall of the Miristry, M. de Freycinet, as Minister of War, directed on February 10 that beneeforth surgeon-majors of the first class and surgeon-majors and pharmacist-majors of the second class shall not be entitled to promotion unless they have passed a special examination (examen d'aptitude) showing them to be apt to fill a higher position. One point especially mentioned in the order is that the eandidates must be quite familiar with all the laws, decrees, regulations, instructions, &e., concerning the health service of the army. For pharmacists the examining jury will consist of the pharmacist-inspector, one surgeon-principal, and the professor of pharmacy at the Val-de-Grâce. As usual in most competitions, for it is one, the preliminary examination will consist of written answers sent by candidates from their post, and the final will take place at the Val-de-Grâce. For those stationed in Algeria and Tunis a special jury will meet at Algiers.

R. D. SILVA, a chemist and pharmaeist of some note, died on February 9 in Paris, where he was professor of analytical chemistry at the École Centrale. Deceased was born at San Antonio, one of the Cape di Verde islands, and was educated at Lisbon, whence he removed to China. For four years he kept a pharmacy there, and during the Anglo French expedition the French corps became greatly indebted to him for a generous supply of much-needed medicines, a kindness which was not forgotten. Iu 1863 M. Silva came to Paris, and pursued the study of chemical sciences with success. After the publication of his first researches and discoveries, in 1867, the French Academy of Sciences awarded him the Jecker prize, the Lishon Academy elected him a member, and the Paris Chemical Society made him its president. Other honorific distinctions were bestowed on him, but as a set-back a misfortune threatening all chemists

overtook him—he lost an eye in a laboratory explosion. M. Silva became, in succession, the head of the analytical chemical laboratory at the École Centrale, professor of analytical chemistry at the Municipal School of Chemistry and Physics, and, finally, professor of the same at the École Centrale, a position he filled up to within two weeks of his death.

A VALUABLE BLUE REDISCOVERED.—Professor Fouqué, of the College de France, at the last meeting of the Academy of Sciences (February 18) read an important memoir on the blue pigment used by the ancient Romans for wall decorations. It is a magnificent colour, as bright to-day as when first applied, and is found in the fresco paintings of Pompeii and other monuments dating from the Roman period. Its production is one of the lost arts, as there is no record of the pigment being used after the invasion of the Barbarians. Modern chemists have more than once tried to ascertain the nature of the compound, but beyond the point that it contains copper nothing definite was discovered. M. Fouqué thinks the lack of success is owing to the fact that the ancients followed no exact rules or proportions. Having secured comparatively copious specimens of the corulcum—such is the old name of the pigment—he has succeeded not only in analysing it, but also in finding a process for making it regularly in quantities. The compound is, according to M. Fouqué, a quadruple silicate of copper and silica, which may be prepared with silica, oxide of copper, and lime, with or without any fluxes. The ancients simply made it with sand, calcined or roasted copper, and lime, but kept to no regular proportions. He worked differently, and managed to obtain an exact chemical combination, which is neither a glass nor an enamel, but a crystalline substance of the composition already mentioned. The crystals are perfectly definite, and strongly dichroic, appearing deep sky-blue when viewed from the surface, and pale rose edgeways. The only difficulty in the preparation is the heating. A bright red heat is necessary to effect the combination, but on heating too much the blue colour is lost and an aventurine green glass is obtained, a circumstance which must have rendered the process a delicate one in old times. Nowadays, however, with the means at our disposal, the difficulty is trifling, and Lilogs, of the cornleum could easily be made in the College ele France laboratory. It is a very stable pigment, so far as chemicals are concerned, as it stands, unaffected, boiling with sulphuric acid or potash lye, as well as quicklime and hydrogen sulphide. That it will be air and water proof is abundantly shown by the old fresco paintings. M. Fouqué considers, therefore, it would be a great boon to the arts to produce the blue commercially, and promised his assistance to any French mannfacturer who will undertake the fabrication. While examining the fine specimens of the rc-discovered blue presented by M. Fouqué, M. Berthelot, who is well versed in ancient chemical lore, remarked the cœruleum in question was no doubt the Alexandria blue, known in Egypt about the beginning of the Christian era, and taken to Pouzzoli, whence its use spread all through Italy. He agreed with M. Fouqué that the pigment was unknown to the Assyrians and ancient Egyptians, and is no doubt a most valuable one.

GERMAN PHARMACEUTICAL NEWS.

(From our Berlin Correspondent.)

IMPROVING THE JOKE.—The wits who amuse themselves by pulling at the chemists' night-bells have fallen upon prosaic times. Several of them in different places in Germany have lately paid for their fun by a fortnight's imprisonment.

A LEARNED PATENT MEDICINE PROPRIETOR has issued a pamphlet on "The Prevention and Cure of Whooping Cough." The purpose is to advertise a fluid extract of chestnut leaves which, it is said, may be mixed with syrup either by the chemist or by the public. The German law, with all its bristling defences against patent medicines, seems not to have foreseen this rather stale device.

More Antiseptic Dressings. - Writing on alpha-

oxynaphthoic acid, Helbig records the use of a collodion (0.5 per cent.) as a substitute for iodoform collodion. It has the advantage of being non-irritant, and of being more stable than the latter-named preparation. He also recommends an alpha-oxynaphthoic acid wool or wadding for employment as an antiseptic dressing for ulcers and wounds. He prepares it by impregnating 7 oz. of absorbent extent wool with a liquid made by dissolving 1 drachm of the acid in 7 oz. of alcohol and 1½ oz. of glycerine, and colonring with a trace of fuchsin. The wool when dried contains about 1.4 per cent of the acid.

Morrhuol is being pushed forward. The process of manufacture consists, it seems, in extracting cod-liver oil with alcohol (90 per cent.), and distilling the extract. The residue is a sharp-tasted, very bitter aromatic oil, which contains bromine, iodine, and phosphorus in some quantity, and which crystallises at normal temperatures. The product is put up in capsules of 3 grains each, which are declared to correspond in therapeutical virtue to about $1\frac{1}{2}$ drachm of cod-liver oil. Brown oil is said to yield from 4.5 to 6 per cent., pale oil 2.5 to 3 per cent., and white oil from 1.5 to 2 per cent. of morrhuol.

SULPHONAL.—Bayer & Co., of Elberfeld, have succeeded in obviating one considerable inconvenience in the manufacture of sulphonal. Formerly this involved the preparation of cthyl mercaptan, which is very volatile, boiling at 36° C., and has moreover such a fearful odour, even when present in the atmosphere only in the slightest traces, that some of the manufacturers have had to remove their factories to remote districts, "far from the busy haunts of men." Now sulphonal, it is found, can be manufactured from mercaptol without previous isolation of the mercaptan. According to the patent specification 26 kilos, of thio-sulphate of cthyl and sodium snlphate are mixed with 5 kilos, of acetone, and 50 kilos, of alcoholic hydrochloric acid. The whole is moderately heated, or allowed to stand for some hours in a closed vessel, when about 70 per cent. of the theoretical yield of mercaptol is produced. To the alcoholic solution water is added till all the mercaptol is separated as an oily liquid, which is directly oxidised by permanganate of potassinm.

How "The Chemist and Druggist" is regarded by Foreigners may be judged from the remarks of the London correspondent of the *Pharm. Zeitung*, Berlin, on your special issne. Speaking about advertisements, he says:—"That the profits on advertisements in this country (England) must accrue in part to the advertisers is evident from the fact that the advertising sheets of the professional papers are increasing in size. The success of such enterprise in the trade journals and the confidence of the advertisers in them can be sufficiently proved from an inspection of the special issne of The Chemist and Druggist of Jannary 26. Besides advertisements for situations, &c., there are no less than 320 different firms who bring themselves under notice in 192 pages. Moreover there are tifty pages of supplement, and three pamphlets of about twenty pages—Consequently, on the average, about one page has been taken by each advertiser at a cost of somewhat over 51., and the money value of the advertisements in this single issue must reach at least 1,5001."

SACCHARIN was again the subject of discnssion the other day in the Reichstag. The Minister v. Böttiger said that experiments had been carried out for some time by the analysts of the Imperial Health Department as to the innocuousness or otherwise of the compound. The result so far, he said, had not been either positive or negative—while it could not be stated that the use of saccharin was harmful to the human economy, neither could it be said to be absolutely innocuous. The trials are to be continued, since it is always possible that more intimate familiarity with the use of the agent as a food may make manifest some undesirable consequence. The Sceretary of State, speaking on the same matter, said at the present no reason was recognised to justify the imposition of a duty on either saccharin or glucose, but that it would not be safe to anticipate that it may remain so for ever. The question had not so far been settled, and he did not know how it would be decided.

ANTIPYRIN, in combination with morphine, powerfully relieves the pain of incurable cancer.

EDINBURGH CHEMISTS' ASSISTANTS' AND APIRENTICES' ASSOCIATION.

T the meeting on February 6, Mr. W. G. Mackenzie subago." Some interesting points were brought out. Thus brounded of potassinm was entirely absent from prescriptions until 1853, and then it only occurred four times in doses of 3 to 5 grains. Blue pill was ordered fifty times as compared with forty-three of all other preparations and salts of mercury. Alkaloids were confined to quinine sulphate, beberine sulphate, morphine hydrochlorate, and strychnine. Diluted nitro-muriatic and sulphuric acids were prescribed in exactly the reverse proportions of what they are now. Aqua eassie was the favourite amongst aromatic waters, and might, said Mr. Mackenzie, have with advantage been retained in the B.P. It is cheaper than cinvanues, and makes a phospate winter the proportion of einnamon, and makes a pleasant mixture. Peppermint water was ordered as aq. menthæ on seven of the fifteen times stated. The author had not the slightest doubt that aq. menth, pip, was dispensed on each occasion. Strange to say emplastrum cantharidis was not ordered at all. Pills appear to have been much more popular forty years ago than now. 27.2 per cent of the 1,000 prescriptions were for pills-that is, twice the proportion now ordered. Some of the pill-forms filled the anthor with a high respect for the dispensing abilities of our pharmacentical forefathers. Pill-making, he feared, is becoming a lost art, and not more than 1 in 150 cases do we now get a really tough thing to tackle, whereas many were formerly to be met with which would test even qualified dispensers pretty thoroughly. Battley's preparations of cinchona, opium, and taraxacum occurred nine times in all, and the only other proprietary articles met with were Bow's liniment and Henry's magnesia one cach, and James's powder nine. Succus limonis was found to be the only representative of its class. The vegetable succi introduced by Squire in 1835 do not appear to have found favour in the northern regions till many years afterwards, Syrup of iodide of iron was the only chemical mineral syrup met with; a contrast to the style now so much in vogue. Of tinctures, digitalis was found six times, and nux vomica twice. The increased use of these and a decrease in the use of hyoseyamus at the present day were pointed out as note-

Those were the days of rhubarb. It was ordered in 10 per cent. of the prescriptions-indeed, it led the way amongst all drugs, the six principal ones being: rhnbarb, in powder, 100; ext. hyoseyami, 72; potassii bicarbonas, 62; quininæ sulphas, 58: bismuth, subnit., 55; and blue pill, 50. The author added some general comments, and mentioned that the basis of the paper was the prescription-books belonging to Mr. John Robertson, chemist, N.W. Circus Place. Edinburgh. so that the analysis represents prescribing in that city only. Mr. Rutherford Hill followed with a paper by Mr. Peter MacEwan entitled

A LONDON LETTER.

The writer first gave a word of advice to assistants coming He briefly described metropolitan life in pharmacy, and the chances of success as compared with provincial opportunities, concluding that the former, being the larger field, was perhaps the best for smart men. He considered, however, that in Edinburgh there were pleasures and privileges open to young pharmacists which were not so easily obtainable in London, and, therefore, that assistants should take full advantage of these while they had the opportunity. All should have the Minor qualification before seeking a situation in London, and they should come well supplied with testimonials and references. A few hints were added as to the best way of obtaining a situation, the writer being of opinion that the applicant should be on the spot. In the second part of the paper—"How to apply for a Situation"—sketch letters of application were given. He stated that many assistants make a mistake in writing for a situation by not giving full information regarding themselves. He considered that everyone should be explicit by giving particulars of their business experience and qualification, and of any other matters which are likely to be considered by an employer in search of an assistant. The third part of the paper dealt with the work and workers of the Association. The

writer stated that the papers contributed during recent sessions showed great advancement, especially in the direction of originality. He urged that the young members should continue to report to the Association on the quality of commercial supplies, believing that by good training in the examination of ordinary chemicals and chemical or galenical preparations the worker learns to have respect for accurate manipulation, he gains confidence in himself, and is able to attack more difficult matters as he becomes experienced. Such work is also directly on the lines of practice for the higher examination, and to encourage it he suggested that the Association should appoint a small research committee to select subjects, to get suitable men to take up these subjects, and to aid them by advice as to the method of investigation, and, if necessary, in drafting reports.

The discussion on the papers was taken part in by Messrs. Bowic, Coull, Henry, Hill, Lunan, McCurric, McEwan,

Macpherson, and Merson.

The second open meeting of the current session was held on Wednesday night, February 20. The programme was a fall one, and consisted of the following papers:—"Easton's Syrup," J. G. Wilson; "Tincture of Opium," J. Hoseason; "Report on Estancial Excursions," Thomas Couley; "Note on Extracts," C. A. Macpherson; "Note on Bismuth Citrate." Donald McEwan; "Glye. Acid. Gallic." and "Impurity in Citric Acid," G. Melvin; and "Note on Euonymin," A. R. Bennet.

NEW COMPANIES.

BURGOYNE & Co. (LIMITED).—Capital, 10,000l., in 1l. shares. Object, to acquire the businesses lately carried on in London by Burgoyne & Co., manufacturers of the "Kentish Sauce," and to earry on the business of sauce mannfacturers. First directors—P. J. Edwards, 6 Adam Street, Adelphi; J. O. Mason, 94 Grosvenor Road, Pimlico: W. J. Clements, The Langham, Ventnor, Isle of Wight; and R. Græme, 14 Halford Road, Richmond, Surrey.

THE TIDY CHEMICAL COMPANY (LIMITED).—Capital, 30,0001., in 11. shares. Formed to adopt and carry out an agreement, dated January 22, 1889, entered into between Daniel Houldsworth, John William Houldsworth, Robert Martin Houldsworth, Albert Edward Houldsworth, of the first part, and William Lummis, of the second part, with or without modification, as the directors may approve, to carry on a general chemical manufacturing business. The first subscribers are: D. Honldsworth, Armsdale, Lancashire; J. Houldsworth, Springfield, Heckmondwike, Yorks.; R. M. Houldsworth, Liversedge, Yorks.; A. E. Houldsworth, 2 Vicoria Terrace, Heckmondwike, Yorks.; D. Scott, 6 Park View, Halifax; J. II. Warrington, Studbill Green, Lceds; T. Estcourt, analytical chemist, Manchester.

HUMPHREY DAVY & SON (LIMITED).—Capital, 4,000%, in 10% shares. Object, to acquire the freehold premises and works known as Victoria Works, situate at Masborough, Rotherham, in the county of York, and the business of wholesale druggists, manufacturers and perfumers carried on there by Messrs. Humphrey Davy & Son. The first subscribers are Humphrey Davy, chemist, Bridgegate, Rotherham; Caroline Jane Davy, spinster, The Yews, Rotherham: Alfred Ernest Wells, steel mannfacturer, Moorgate, Rotherham; John Dobb, auctioneer, Wheston, Yorks; John Baker, railway wheel manufacturer, Moorgate, Rotherham; Richard Corker, stove grate manufacturer, Masborough. Yorks; Walter Henry Davy, chemist, Moorgate, Rotherham.

THE KENNEDY COMPANY (LIMITED). -Capital, 1,000%, in 11. shares. Object, to carry on the trade or business of manufacturing and selling medicines, drugs, surgical appliances, &c. Office, 112 Southampton Row, W.C. The first subscribers are William Edward Caddell, agent, 8 Snow Hill. E.C.; Herbert Walter Smith, honey refiner, 2 Dorchester Place, Blandford Square, N.W.; Herbert John Moir, accountant, 11 Miranda Road, N.; Robert A. Webster, elerk, 114 Highgate Hill, N.; Edmind Beaupre Bell, warehouseman, 4 Britannia Road, Fulham, S.W.; Frederick Stephen Helwest translater, 52 Printers Read Stepferd Hill N.W. Holness, traveller, 58 Paignton Road, Stamford Hill, N.W.; William, Pound, accountant, 20 Despard Road, Highgate Hill, N.

THE MIDLAND COUNTIES CHEMISTS' ASSOCIATION.

A MEETING of the Midland Counties Chemists' Association was held on Tuesday at Mason College, Birmingham, the President (Mr. G. E. Perry) in the chair. There was a large attendance of members.

To re-open the discussion on

MOOT POINTS IN DISPENSING,

Mr. F. H. Prosser contributed some remarks on chlorodync and on the variability in the colour of certain scale compounds. Regarding the colour of Ferri citras c. strychninâ, he said: About twelve months or more ago 1 received a prescription to dispense, as follows:—

The mixture, when dispensed, was of a light green colour. In a little while it was returned, with the remark that it had been wrongly dispensed, it having been previously dispensed (by an historic house in the centre of the city) of a dark red colour. I had some difficulty in persuading the customer that the mixture was identical in composition if not in colour.

At the adjournment of the discussion last month members were asked to bring forward any difficulties they might have met with in dispensing, and this is one which came across my mind. I have, through the kindness of Messrs. Howards & Sons, Fletcher, Fletcher & Stevenson. Evans, Sons & Co., Wright, Layman & Umney, Hearon, Squire & Francis, and J. W. Woolley, Sons & Co., been able to bring before you various makes and shades of this preparation, as well as samples of other scale preparations. I have made solutions of several, containing, as in the prescription alluded to, 5 grs. in 1 oz., and you will see the different shades of colour ranging from a very pale green to a deep ruby-red. These colours, I find, are not of so strong a contrast by gaslight as in the daylight. The solution marked "Southall B" is one I obtained from Messrs. Sonthall soon after dispensing the prescription. I procured another sample a few days ago, and this, marked "Southall A," is identical in colour with that made from "Howard's" salt.

I should like to ask whether they have given np making the ruby-red salt, or whether they make both. Messrs. Wright, Layman & Umney, in sending their samples, remark that the darker salt is made by a formula similar to one published in the old edition of the U.S. Pharmacopæia.

Chlorodyne.—The other subject which is down on the paper for me to introduce is chlorodyne. What should be dispensed when chlorodyne is ordered in a prescription? I always used Collis Browne's until the tinet. chloroform. et morphinæ was introduced into the Pharmacopæia as, I understood, a definite substitute for the unknown or indefinite formulæ of such an nulimited number of preparations. If it was not, what was it introduced for? We know what we are dispensing when we use it, and the medical man knows what he is prescribing. It is called by the Extra Pharmacopæia "the equivalent of chlorodyne."

Mr. Prosser, continuing, said he did not agree with Mr. Southall in dispensing 8 oz. when "Oss." was written. He always used 10 oz. In the matter of the small-pill question, he always made up the dry ingredients to 1 grain, and their excipient as small as possible, and not up to 2 grains.

Discussion.

Mr. THONGER said his notion was that the true rendering of half-a-pint should lie quite as much with the dispenser as the prescriber, and although he did not like guessing in dispensing, yet they should decide on the basis of what would be required. He did not find it of any use to consult a medical man, who usually, in reply to the question as to quantity, said: "Use just what you like; I don't care." The more modern practitioners, however, would certainly require more exactness. He was of opinion there was more carelessness than carefulness amongst the medical profession. In the matter of pills he invariably added as small a quantity

of the excipient as possible to what he called normal size, namely, the size they would be without an excipient. As regarded chlorodyne, he did not think the B. P. preparation should be used, because the British Pharmacopæia did not call it chlorodyne, and mere similarity was not enough. He always used Collis Browne's.

Mr. Asron said his opinion was that the medical men ought to have impressed upon them that something definite should be arrived at. He considered a resolution should be adopted by the meeting that in future, in dispensing "Oss.," 10 oz. should always be used, so that it might be clear to local dispensers what standard they should go by. In reference to the question of pills Mr. Jones had entirely misunderstood him. In his paper at Bath he intended to imply that a note should be made in the prescription-book as to the size and excipient of the pill and not on the prescription. He did that to ensure uniformity whenever the pills were dispensed in the same establishment again. He would like very much to see more of these notes, such as a "shake" when a "shake the bottle" label was required, so that this label might always be affixed to the same mixture. (Hear, hear.) Regarding aqua menthæ, he would always use spearmint water. He would like to ask, too, what was meant by a dessert-spoonful—2 drachms or 3 drachms? Also whether. when potassium chlorate with hydrochloric acid was ordered in a gargle, it was intended to be made into a solution of chlorine at once, or whether the chemical action should be retarded. Again, in quinine mixture, should the quinine be dissolved if no acid was inserted? These and several other dissolved if no acid was inserted? These and several other points required some attention. He always, for example. used sodii bicarb, when sodii carb, was ordered in a mixture.

Mr. GEDDES (Oldham) said he had not dispensed for ten years, but in the matter of chlorodyne, which was usually understood to contain four grains of morphia to the ounce by medical men, that amount should be used, although London men might consider that 2 grs. per oz. was the right strength, as indicated in Squire and Martindale.

Mr. CRIPPS said about two years ago he had to investigate the matter of the scale-compound ferri citras c. strychninâ, and had some difficulty in understanding Mr. Martindale's description, which he gave in his book. He had analysed several commercial samples, and had found that they varied greatly. He found, however, that most of the customers at Messrs. Southall's liked the pale kind. All knew that the U.S. P. formulæ gave a brown product, hence the reason for the two colours in the market. This, however, was troublesome to the dispenser, and he would suggest that in the Midland district the palc should be used. There were arguments for and against these differences in colour, on account of its likeness to ferri et quin. citras. With regard to the gargle of Mr. Aston, he had seen it stated by a London physician that whenever he placed these together he required the chlorine solution. The dispenser should consult the prescriber as to what was implied by the half-pint. because if he belonged to the old school it was highly probable that he would mean 8 ounces. The best thing for medical men to do would be to write 8 or 10 ounces, as required. The sign was comparatively antiquated, therefore there was very little doubt that most of the men who wrote it would be of the antiquated school, and consequently would mean 8 ounces. It appeared to him that it would be well to dispense 8 ounces.

Mr. Thompson said he was really surprised to hear Mr. Cripps allow such a latitude to the old school. The sign really meant 10 oz., and he thought to introduce any such method as he would propose to ascribe to the old school of medical practitioners was not calculated to lead to accuracy. Therefore he should say that the sign for half-a-piut should be understood to mean 10 oz. He should stick to the 10 oz.

through thick and thin. (Laughter.)

Mr. Thonger said there was no doubt that the question of the half-pint was a very important one. He did not know what the discussion was likely to lead to, or whether the meeting was likely to adopt any resolution on the subject. He thought strongly that some definite standard should be arrived at as to the interpretation of the sign "Oss." (Hear, hear.) They should let their colleagues know through the medical journals and The Chemist and Druggist, that they were anxions to get a definite opinion upon the point as to whether "Oss" should be considered 8 or 10 oz. They

Should at any rate, so far as that Association was concerned, give the chemists of the Midlands an authoritative standard to go by, an authority such as they could bring forward if occasion required. He quite agreed with Mr. Cripps had said with regard to the 8 oz. emanating from the old school of practitioners. He thought it a great mistake to interpret half-a-pint as 10 oz. in a prescription. He was perfectly convinced that 8 oz. was the proper definition. (Ilcar, hear.)

The President said he should like to hear opinions ex-

pressed on Mr. Prosser's paper.

Mr. Spencer said years ago he understood "Oss." to signify 8 oz. Some considerable time back, however, a fellow-student said to him when he was going to Manchester: "There is one thing you must be sure and not forget when you get to Manchester"; adding, "When I was apprenticed in Birmingham 'Oss.' meant 8 oz., but in Manchester it always means ten." Then in Ireland "Oss." meant 6 oz.

(Laughter.)

Mr. Alcock, alluding to whether the gargle spoken of should be a solution of chloriue or not, remarked that a week ago he had to decide such a question. The prescription contained, besides the potassium chlorate and hydrochloric acid a compound tincture of cinchona; and because of the presence of that preparation he decided that chlorine water might interfere with, or modify, the alkaloids in the preparation. In such cases he suggested that it would be more frequently right than wrong to avoid the development of the chlorine in such mixtures.

Mr. WILFRED SOUTHALL said he had generally found that potassium ehlorate and hydrochlorie acid had been bracketed

together if free chlorine was required.

Mr. LLOYD stated that he had also seen this arrangement —first the ehlorate of potash, then the hydrochloric acid, followed by the words "misce et adde." In this way there

could be no mistake.

The PRESIDENT said he thought they would be wrong in sending out a chlorine mixture including strong acid, unless the combination were ordered. He could not quite agree to a dessert-spoonful being 3 drachms. It was generally understood to be 2 teaspoonfuls. He thought the action Mr. Jones took with regard to the half-pint was one calculated to awaken medical men to the fact, of which they were probably not aware, that the sign upon which he asked their opinion had more than one interpretation. As to the size of pills, he thought if they could decide upon one general excipient they would be working in the right direction. With regard to chlorodyne, he should be sorry to dispense any other than that of Collis Browne. He did not think they were justified in dispensing anything else. He thought medical men when they wrote out their prescriptions meant Collis Browne's chlorodyne. Speaking of the scale preparation, he pointed ont that the lighter preparation was more generally used than the darker one. Coming to the "Oss" question, a gentleman had said he understood it signified 6-oz. in Ireland. He did not think the meeting could entertain the 6-oz. question that night, neither did he consider they could settle the matter as to whether 8 or 10 oz. should be the standard. There was no doubt about it that legally they might get into trouble if they dispensed anything but 10 oz. They could of course plead custom, and that doubtless would go a considerable way in a police-court. There was no doubt that nine out of every ten practitioners who wrote "Oss" meant 8 oz. They belonged to the antiquated school, and found it more convenient to write "Oss" than 3viij. It seemed to him that that was the only reason for using the term. Modern doctors did not use the sign at all. It had occurred to Mr. Thonger and Mr. Jones that the matter should be referred to the Medical Conneil. His own opinion was that, instead of referring the matter direct to the Medical Conneil, it should be remitted to the Council of the Midland Counties Chemists' Association for discussion as to the form in which the question should be submitted to the Medical Council. He thought if Mr. Thonger moved such a resolution as that it would meet with general approval.

Mr. THONGER said that was precisely what he meant. suggested that they should lay before their colleagues in their profession—he meant their own profession—that they intended to adopt a definite standard so far as the Association was concerned. That would naturally find its way to the executive before any official action could be taken. Hedid not mean that they should refer the subject to the medical profession.

The PRESIDENT: I thought you meant that we should send a resolution to the Medical Conneil direct, instead of first remitting it to our own Council.

Mr. THONGER: No, I did not.

The PRESIDENT thought a resolution should be framed to the effect that the question be remitted to the Council of the Midland Counties Chemists' Association for their consideration, with the view, if thought desirable, to further action.

Mr. THONGER then moved,

"That the question of the interpretation of the sign 'Oss' be referred to the Council of the Midland Countie: Chemists' Association for their consideration."

Mr. ASTON seconded.

Mr. LLOYD: I suppose any decision the Conneil might come to would be referred back to a general meeting before anything definite is published, because it concerns the whole of the members of the Association.

The PRESIDENT: I think it must be left to the Conneil to

take what action they think desirable.

Mr. Spencer suggested that the matter should be postponed until Mr. Jones was present.

The President said Mr. Jones had agreed to the Associa

tion dealing with the matter as they thought best.

The resolution was then put to the meeting and carried

"FALSE" CASCARA SAGRADA.

Mr. CRIPPS then exhibited and described three specimens of cascara sagrada similar to those shown by Mr. Moss at Bloomsbury Square last week. With regard to distinguishing the barks, Mr. Cripps said he had found that when a section of the true caseara was touched with liq. ammonia a claretcolour stain was obtained, indicative of the presence of chrysophan, whilst in the case of the false eascara an arterial blood-red colour was produced. In each of the aqueons preparations tannin was present, but no starch, and with ammonic hydrate the cold decoetion of the false burk gave a paler red colour than the true. He also observed the presence of pupe or larvæ of some insect on the false caseara which had not been alluded to by Mr. Moss.

Mr. Alcock asked Mr. Cripps if he had found on the false caseara bark lenticels, as he could not gather from Mr. Moss's remarks, or those of Mr. Cripps, whether they were present or not. They, however, seemed to be present on rhamnus

barks.

Mr. Cripps had not noticed the lentieels.

THE PHARMACY BILL OF 1889.

At the last meeting of the Council of the Association (held February 12), the new Pharmacy Bill was discusse l, and on the motion of Mr. G. E. Perry, seconded by Mr. W. Jones, it was unanimously resolved "That the Council of this Association, whilst heartily approving of the action of the Pharmaceutical Council with regard to the enforcement of a carrierlum, are, however, of opinion that additional regulations for the sale of poisons and other matters affecting the safety of the public should be dealt with at the same time.

We understand that Mr. Thompson, one of the secretaries to this Association, will shortly resign that office.

MACHORKA.—In Russian journals attention has recently been called to a new product of the tobacco industry, viz.. the nicotinous extract of the commonest variety of Russian tobaceo, known as "Maehorka." This extract is used largely in the Russian Empire, and considerable quantities of it are also exported, principally to South Africa. It is used in the first place for the destruction of parasites on plants and animals, and it has recently been used in the treatment of foot-and-month disease in sheep. The macharka tobacco yields from 20 to 25 per cent of this extract. Here are at present manufactories for the preparation of tobe to extract in many parts of the Continent, especially in Germany, France, and Italy; but it is said that the Russian machorka extract is by far superior to any of these produc-

Gazette.

PARTNERSHIPS DISSOLVED.

Tannton, R. H., & Lane, H., Birmingham, manufacturers of bollers, chemicals, chemical apparatus, &c. (under the style of the Patent Steam Boiler Company), and Palmerston Buildings, Old Broad Street, City, designers and engineers, and designers of war, scientific, mochanical, and chemical appliances and apparatus (under the style of Howard, Lane & Co.).

Wcllock & Whiteoak, Bingley, Yorkshire, mineral-water manufacturers.

THE BANKRUPTCY ACT, 1883.

RECEIVING ORDERS.

Eskell, Frederick, Hanover Square, dentist.

Langley, William (trading as the Royal Mineral-water Company), Blackburn, formerly trading with J. Alack, as the Royal Mineralwater Company, mineral-water manufacturer.

Newton, George, Neweastle-upon-Tyne, surgeon.

FIRST MEETINGS AND PUBLIC EXAMINATIONS.

Allen, David J., Durham Terrace, Bayswater, doctor of medicine— Pebruary 26, 33 Carey Street, Liucoln's Inn; March 13, 34 Lincoln's Inn Fields.

Farrance, Franklyn, Eastbonrne, veteriuary surgeou—February 27 Messrs. Coles & Carr's, Scaside Road, Eastbourne; March 7, Town Hall. Eastbourne.

Harrison, William Thompson, & Leigh, Arthur John Tunstall (trading as the Manchester Yeast Company), Gaythorne, Manchester, yeast manufacturers—February 26, Official Receiver's offices, Manchester; February 27, Court House, Manchester.

Newton, George, Newcastle-on-Tync, surgeon—February 25, Official Receiver's office, Newcastle-on-Tyne; February 21, County Court, Newcastle-on-Tync.

ADJUDICATION.

Farrance, Franklyn, Eastbourne, veterinary surgeon.

APPLICATION FOR DEBTOR'S DISCHARGE.

Chapman, Levi (trading as Chapman & Co.), Coventry, mineral-water manufacturer—March 19, County Hall, Coventry.

ORDERS MADE ON APPLICATIONS FOR DISCHARGE.

Dards, Joseph, Old Kent Road and London Road, mineral-water manufacturer—discharge suspended for 15 months.

Ferguson, William Kennedy, Leeds, chemist, druggist, and electroplater, trading with T. W. Wetherell-unconditional order of discharge granted.

BANKRUPTCY REPORTS.

Re CHARLES BENJAMIN SPRAGGE NORTON, 72 Castle Street, Bristol, Chemist.

A STATEMENT of affairs has been issued in this case, under a receiving order obtained upon the debtor's own petition, on January 19, 1889. The debtor is described as lately residing at 9 York Street, Bristol, and formerly trading in co-partnership with William Henry Riehard Glass, Uriah Glass, and William Joseph Walton Powell as the Castle Pharmaey and Tea Company. The statement shows liabilities, 550l. 4s.; assets, 22l. 17s., less preferential elaims, 12l. 2s. 2d., leaving a deficiency of 539l. 9s. 3d. The Official Receiver reports that the debtor was last October in partnership with three other persons, W. J. W. Powell, W. H. R. Glass, and U. Glass, each of whom has since filed a separate petition at different dates, and each attributes his failure to the conduct and transactions of the others. The present debtor does not attempt to give any detailed account of his very large deficiency, but endeavours to explain it generally in the following terms:—The extent of the deficiency is consequent upon the unfortunate partnership I was induced to enter into with William H. R. Glass, U. Glass, and W. J. W. Powell. I accepted the liability in connection with the Tea Company without a full knowledge of its position, and its recent failure precluded me receiving any benefit

therefrom. The partnership subsisted for only a month or two, and there are no books worthy of the name, except a cash-book in the handwriting of one of the partners, who says that the entries in it were all furnished to him by one of the others. The book, moreover, has the most recent leaves torn away. Norton and Powell, who remained in the business after the brothers Glass had gone out of it, gave two bills for 125*l*, and 75*l*, each, presumably to represent their shares of the joint assets; but the total value of the effects at the two shops retained by Norton and Powell appears to have only been about 37*l*, 18*s*, when they filed their petition a month or two later. The two bills referred to were not negotiated, but are held by Powell's solicitor. The debtor has been adjudged bankrupt, and an order for summary administration has been made by the Court.

Re Chas. Benjamin Spragge Norton, Bristol, Chemist.

Ar the first meeting of creditors, held on February 13 at the office of the Official Receiver, Bristol, Mr. Broek appeared for the debtor, and Mr. Duekett for Messrs. Van Oppen & Co., manufacturers of toilet requisites, London. Mr. Duckett said that the claim of the firm which he represented was against this debtor and the other members of his firm, and he asked that the affairs might be consolidated. The Official Receiver said to consolidate the affairs the different people must be in partnership, and they could not consolidate where a dissolution had taken place. A dissolution had taken place in this matter, but it was not gazetted. The debtor had stated that he and his partners divided the profits each quarter, but he would like to know how they ascertained the profits. The debtor said every quarter they drew out a balance-sheet showing what was in hand, and then divided equally. There was a partnership deed when Powell came into the firm. The Official Receiver remarked that the deed of dissolution was good although not gazetted, but it would not be good against the creditors, and he must take the opinion of the Registrar of the County Court as to consolidating the estates of the different partners. The euriosity was that each of the partners blamed the others for what had occurred. The winding-up of the estate remains in the hands of the Official Receiver.

The principal ercditors are:—

			<i>\$</i> 22	3.	α .
Budgett, H. H., & Co., Bristol (about)	• •		50	0	0
Edwards & Son, 167 Queen Victoria Street,	E.C.		10	11	0
Lewis & Co., Crutched Friars, E.C			80	0	0
Robinson, E. S. & A., Bristol		••	25	0	0
Van Oppen & Co., London Wall Avenue .			13	0	0
Veale, -, Bristol			60	0	0
Western Finance Association, Bristol			200	0	0

Re THE CASTLE PHARMACY AND TEA COMPANY, Bristol.

On February 15 the four partners in this eompany eame before Mr. Registrar Harley at the Bristol Bankruptey Court for public examination. The bankrupts are Charles B. S. Norton, Uriah Glass, W. H. R. Glass, and W. J. W. Powell. The bankrupt Norton, in his examination by the Official Receiver, said he did not regard the dissolution of partnership as real; it was never gazetted. His liabilities were 400l. to 500l., and the assets considerably under 40l. He was living at the premises where the business had been carried on, 72 Castle Street, and his wife had bought the business, paying for it by weekly instalments. The brothers Glass, in reply to the Official Receiver, said they put 400l. into the concern, and had practically received nothing. Powell was examined at some length by the Official Receiver. He said he was still in Castle Street; his wife rented the place to see if she could work up the business. His friends had advanced her money. He never received 102l. from Messrs. Glass, but probably he received from them sums of 45l., 2l. 2s., 1l. 16s., and 20l., and other sums, amounting to 91l. He went into the shop to represent Messrs. Glass, who had a claim on a bill of sale against Mr. Norton. Messrs. Glass were unable to get their money, and therefore bought the business of Norton. He paid some of the debts for Messrs. Glass with money they handed to him. Messrs.

Glass subsequently took him and Mr. Norton into partnership in order to prevent Mr. Norton starting a rival business. The examination was adjourned till March 29, and the bankrupt Powell was ordered to file amended accounts.

Re THOMAS MORTON, Kirkintillocii, Chemist and Druggist.

Ox February 15, at the Dumbarton Sheriff Court, this debtor was examined in bankruptcy. The bankrupt deposed that he had carried on business as a chemist and druggist in Kirkintilloch for thirty-two years. Up till about ten years ago he had found it fairly successful. He then gave details of his property transactions during the last eighteen years. He had a branch shop in Kilsyth about ten years ago. It paid a little at first, but latterly it went to the wall, and he sold it about May last to Dr. T. Jones for 100l. Dr. The bills Jones gave him 201. in cash and the rest in bills. were given to the agent of the Commercial Bank in Kirkintilloch, who, however, returned one for 431. He sold his chemist's shop in Kirkintilloch to Dr. Porter for the snm of This was in the month of December last, and was paid in cash. He thought he sold at a loss. In December last he called a meeting of his creditors, and laid a statement of his affairs before them. The only available asset was the 100%, cash he had lodged with his agent. This would have yielded about 2s. 6d. per 1l., but they refused to accept anything less than 7s. 6d. per 1l. The state of bankrupt's affairs shows liabilities to the extent of 790l. 16s. 6d., and assets to the amount of 134l. 10s. The statutory oath was administered.

Legal Reports.

JAMIESON v. BENTLEY & Co.

On Saturday Mr. Justice North, sitting in the Chancery Division, had this action before him on a motion for jndgment. Mr. Cozens Hardy, Q.C., said plaintiff was the manufacturer of a composition for harness, and his composition was sold in boxes stamped "P. Jamieson, Aberdeen, harness composition." Messrs. Bentley & Co. sold a composition in boxes stamped, "R. Jamieson, Aberdeen," the real name of the vendor being R. Jamieson Barbour. A perpetual injunction was, on a former occasion, obtained against Messrs. Bentley, and then an action for an injunction was commenced against Mr. Barbour to restrain him from selling, or exposing for sale, or passing off any harness composition as Jamieson's not manufactured by the plaintiff. The defendant did not appear, and his Lordship granted a perpetual injunction in the terms asked.

CHEMISTS AND THEIR DIFFICULTIES.

In the City of London Court on Saturday, before Mr. Commissioner Kerr, the case of Evans and others v. Maston was heard and determined. The plaintiffs, Messrs. Evans, Lescher & Webb, wholesale druggists, of 60 Bartholomew Close, E.C., took the proceedings against the defendant, Mr. George Henry Maston, carrying on business as a chemist at 7 Lordship Terrace, East Dulwich, S.E., for him to show cause why he should not be committed to Holloway Gaol for not having paid to the plaintiffs the snm of 4l. 6s. 1d. due to them for drugs, &c., supplied. The defendant, in answer to questions, said he was really unable to pay the money as he had no means whatever. He paid 30l. a year for his shop, but his takings on an average did not amount to more than 2l. to 3l. per week. He gave no eredit, so that sum could be regarded as cash. The plaintiffs' representative ventured to say that the defendant took 1l. a day. It was the best shop in Dulwich. The defendant said that was not so. The learned Commissioner: Why not take all the goods and chattels then? The plaintiffs' representative: Because he says he owes rent to the landlord. He has offered us 5s. per month by letter. The defendant denied the accuracy of this statement. He had not made any such offer, to his knowledge. The learned Commissioner: What are your debts altogether? The defendant: 60l. to 70l. The learned Commissioner: I see no evidence of means in this case. If

he offered you 5s. per month why didn't you take it? The plaintiffs' representative replied that the offer was made since the issue of these proceedings. The defendant tried to evade service of the process of the Court. The learned Commissioner: He may be a great rogue, but that is not the question I have to deal with. All I have to deal with is whether he is able to pay the money. The defendant said he had an order against him in one Court to pay 4s. per month, but this month he had been mable even to pay that. He had four or five other orders against him in various Courts. He paid his creditors when he could, and he would pay the plaintiffs at the earliest possible moment. The learned Commissioner: I can't punish him because he does not pay. If he has the money and does not pay, then I can send him to prison. The plaintiffs' representative: He has cash, and takes money every day. Surely he must have had the amount of our debt. He has customers. The learned Commissioner: You may take the lease of his shop in execution if you like. The plaintiffs' representative: Then he puts the landlord up. The learned Commissioner: Pay out the landlord, and take the shop. The defendant: I will pay when I can. I will try and pay 3s. per month. I have not paid the last quarter's rent. I am paying the landlord as I can. I owe him 40l., and then my other debts amount to about another 20l. or so. The plaintiffs' representative: The shop is splendidly fitted up. The defendant: That is not so-Why will you keep on stating that which is not the trnth? I am in the place only on the suffcrance of the landlord. He could turn me out to-morrow if he liked. Ultimately, the learned Commissioner said he would make an order for payment by instalments of 3s. per month, but under Order 50, Rule 13, of the new Rules and Orders he could allow no fees or costs where an order of instalments was made.

DRUGGISTS AND THEIR CUSTOMERS.

A CASE of some importance to wholesale druggists was determined by Mr. Commissioner Kerr on Monday in the City of London Court. The proceedings were brought by Mr. George Whiting, medicine vendor, of Dartford, against Messrs. E. Jacobs & Son, wholesale druggists, carrying on business in the City, to recover the sum of 30%, damages for unlawful entry of premises and illegally seizing the goods thereon. Mr. H. Wetherfield appeared for the plaintiff, and Mr. C. C. Scott for the defendants. It seemed from the evidence for the plaintiff that his son, F. Whiting, ordered some horse medicines of the defendants, and they were duly supplied. As the money was not paid action was taken in the Mayor's Court, where judgment was recovered. The judgment was removed to the High Court, whence execution was levied by the sheriff's officer. He went into possession of the premises where the son lived, and where it was supposed he carried on his business, but upon it being discovered he was only manager to his father the sheriff was withdrawn. Mr. Scott pointed out that the medicines supplied by Messrs. Jacobs were on the premises, and from that they were justified in coming to the conclusion that the business was his. Assuming the son had no goods there, the sheriff was not the agent of the party but an officer of the Court. An action would lie against the sheriff, if at all. The sheriff was bound to exercise his discretion in levying. The learned Commissioner said that was so, but commented in characteristic terms about the costs which had been charged. Judgment was therefore entered for the defendants, with costs.

Personalities.

MR. FRED W. HATTON has purchased the business carried on for some twenty-four years at 52 South Street, Dorchester, by Mr. W. How.

THE executors of the late Mr. White, chemist and grocer, Lanneeston, Cornwall, have disposed of this business to Mr. Shuter, of Plympton.

MR. W. BUTCHER, of the firm of Wm. Butcher & Co., wholesale homosopathic chemists, of Blackheath, will sail for Anstralia in the *Orient*, leaving London on March 1. He proposes to visit all the chief cities of Australia on behalf of his firm.

EXTRACIS FROM THE REGISTER OF DEEDS OF ARRANGEMENT.

The following deeds of arrangement with creditors have been filed at the Bills of Sale Office, under the provisions of the Deeds of Arrangement Act, 1887. Some of these deeds are for the purpose of carrying out compositions with creditors (and such are specified below), but the great majority of them are "assignments" in the ordinary form, to a trustee or trustees, for the benefit of creditors. The Act referred to expressly provides that registration shall not give validity to any deed which is an act of bankruptey, and there is no provision, in the Act, making any of these arrangements binding upon dissenting creditors.

Holden, William Henry, 52 Bridge Street, Bolton, surgeon. Trustee: Frederick W. Briscoe, 11 Chancery Laue, Bolton, accountant. Date February 13; filed, February 19; unsecured liabilities, 697t. 13s. 2d.; estimated net assets, 235t. 10s.; creditors fully secured, 12t. 10s.

					£	S.	d_*	
Averdonk, R. H., Bolton					18	0	0	
Banks, Wm., Bolton					11	5	0	
Baxendale, W., & Co., Bolton					78	0	0	
Bleasdale, W., & Co., York					19	6	8	
Brunelow, Thos , Bolton					11	14	0	
Chadwick, J., Bolton					28	2	3	
Fearnhead, Jos., Bolton					13	0	0	
Gilchrist, R. M., Bolton					60	0	0	
Gordon, Samuel, Bolton					28	0	0	
Hodgkinson & Co, Bolton				• •	13	4	6	
Hopley, E. G., Boltou					10	4	4	
Halton, J. C., Bolton					24	0	0	
Jenkins, C. E., Bolton			• •		11	7	6	
Kerston, Marie, Bury					31	0	0	
Legat, W. H., Bolton					32	0	0	
Nassaner Bros., Frankfort-on-	Mai	11e			24	15	0	
Nieho'son, Wm., Bolton					10	0	0	
Payne, D. W., Boltou					13	12	0	
Quant, W. A., Bolton					28	0	0	
Sharman, J., Bolton					20	0	0	
Skelton, E., Birkdale					22	0	0	
Stead & Simpsou, Bolton					62	2	8	
Thomasson, Thos., Bolton					65	6	7	
Walker, G. W., Bolton					12	0	0	
4 337 0 0 0 11			00	01		3.7	7.	

Hurst, W. & S. (trading as Samuel Hurst), 22 Chorley New Read. Horwich, chemical manufacturer. Trustee: J. R. Ross, Boiton, accountant. Date, February 11; filed, February 18; unsecured liabilities, 1,053/. 8s. 8d.: estimated net assets, 320/.; creditors fully secured, 2,830/. Assignment with a committee of inspection.

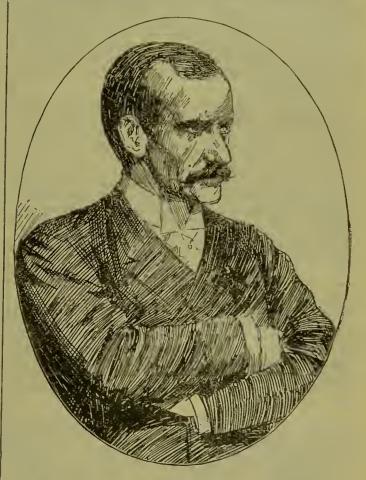
					£	5.	d.	
Bellamy, T. W., Horwich		• •			22	0	0	
Blackburn Corporation, Black	burn				30	0	0	
Bolton Corporation, Gas Depa	rtmen	t, Bol	lton		43	0	7	
Burgess & Sons, Blackrod					14	5	8	
Burrows, T., Horwich					49	11	2	
Galloway, James, Liverpool					70	0	0	
Hardman, John, & Bros., Rade	eliffe				43	6	10	
Lambert, J. E., Horwich					40	3	4	
Nurse, Thomas, Horwich					43	0	0	
Radeliffe & Pilkington Gas	Comp	auy,	Radeli	iffe,				
near Manchester					14	12	5	
Robinson & Morris, Bolton					15	0	0	
Rothwell, J., & Sons, Bolton					14	9	61	
Thompson, J. W., Bolton					456	0	0	
Tomliuson, J. & W., Darwen					56	0	0	
Varley, H. M., Horwich					19	6	2	

AT a recent meeting of the Société d'Acclimatation of Paris Dr. Bétaneès showed a flowering branch of the coca plant, which had been sent him by Mgr. de Mérino, Archbishop of San Domingo, in the Antilles, where coea is now being cultivated.

ABOLITION OF JAPANESE EXPORT DUTIES ON DRUGS.—By Japanese Imperial ordinance the export duty on the following drugs leaving Japan is abolished from the commencement of 1889, and in the event of a re-imposition of the duty a notice of six months will be given:—Drugs (camphor excepted), prepared medicines, dye-stuffs, colours, glue, isinglass, candles. Japanese ink and similar articles, ink-pads. washing-powder, soap, tooth-powder, and blacking, medical and scientific instruments, perfumery, articles for the toilet, barks, roots, flowers, gnms, bird-lime, powdered gallnuts, vinegar, soy, oils, prepared spices, and honey.

MAJOR LE CARON.

In reply to our request of last week for further information concerning Major Le Caron's pharmaceutical career, we are favoured with the information we sought from the Major (or the Doctor, as he seems to prefer to be called) himself. Dr. Le Caron informs us that for the last twenty years he has taken great interest in the cause and progress of pharmacy. He has been proprietor of chemist's shops in Chicago. Braidwood, and Braceville, all in the State of Illinois. He was one of the promoters of legislation for the regulation of the practice of pharmacy, a charter member of the Illinois Pharmacentical Association, and honorary member of the Michigan society, and has devoted his services, at his own expense, during more than one session of the legislature to seenre the passage of the present Pharmaey Act. He has been for three consecutive years chairman of the Committee on Trade Interest, delegate to the National Association and other societies, first vice-president and president of the



Illinois society, and has written a number of papers upon pharmacy. He is to day the nominee from his Congressional district by the society to the Governor of the State for the position of member of State Board of Pharmacy for 1889-94. Dr. Le Caron mentions several prominent American pharmacists, such as G. P. Englehard, of the Western Druggist. Professor Oldberg, of the Illinois College of Pharmacy, and Professor Ebert, of the Chicago College of Pharmacy, and Professor Ebert, of the Chicago College of Pharmacy, to whom he is known. In giving us this information Dr. Le Caron informs as that he does not seek notoriety, of which he says he has a surfeit already, but he would like it to be known for the sake of his wife and children that the name Le Caron which he now bears was legalised in 1866, in accordance with the laws of the United States. Of his conduct as a spy on the American Fenian associations, he is willing for any patriotic Englishman to be the judge; he believes the end justified the means.

COCAINE-POISONING.—A lady has died in Italy from the subcutaneous injection of 4 grains of cocaine hydrochlorate. Another was given 1½ gramme (23 grains) internally by mistake. She died in a very short time.

NEWS.

UNDER the title of "The True Position of Patentees," Mr. H. Moy Thomas has published, through Messrs. Simpkin, Marshall & Co., a little book, in which the patent laws and regulations at home, abroad, and in our colonies and dependencies are explained for the information of English inventors.

"Robert," Mr. Punch's celebrated waiter, has, along with other knights of the napkin, been entertained by a Welsh gentleman of the name of "Hidress" to dinner, the novelty of which was temperance wines and liqueurs. In spite of terrible forebodings, "Robert" and his friends appear to have been highly delighted, and he speaks warmly of his host's geniality and the excellence of the entertainment. "Mr. Hidress" is, we may fairly presume, Robertian for Idris & Co.

ANOTHER COMBINATION.—The American shellae-bleachers, after seven years' experience of free competition, have taken advantage of the advance in the market for the raw material to effect a "combination" regulating their production and quotations. Previous to 1881 there were, it appears, only two important shellae-bleachers in the States, between whom an "understanding" existed to keep up the price to a highly remnnerative figure.

THE directors of Henry Lamplough (Limited) have issued an interim report with accounts for the half-year ending November 30, 1888. They show a gross trading profit for that period of 5,9191. 9s. 3d., but their expenses during the same time (including a sum of 6501. paid to the late manager as compensation, to induce him to resign whatever claim he might have had on the company) leave a net profit of only 7771. 11s. 11d. This added to a profit earried from last account of 1,8361. 6s. 3d., shows a balance of 2,6131. 18s. 2d. to the credit of profit and loss; but the directors do not propose to declare any interim dividend. The directors refer with satisfaction to the progress of the business.

THE British Cattle Foods Company (Limited) has been announced during the past week. It proposes to raise a capital of 100,000% to take over the businesses of Myers's Royal Cattle and Horse Spice and Pig and Poultry Food, Foster's Calf Meal, Warren's Blood Foods, &c. A very ornamental directorate has been formed. With the prospectus many testimonials are issned, and the public are somewhat imprudently told that the 6d. packet of Myers's spice costs less than 1d. The price to be paid for the valuable properties is fixed at 52,000%.

The shareholders of the Sanitas Company (Limited) were entertained to a sumptuous luncheon at the works in Bethnal Green on Tuesday, on the occasion of the annual meeting of the company. Their appetite was sharpened by the satisfactory announcement previously of a dividend of 5 per cent. and $2\frac{1}{2}$ per cent., which with an interim dividend of 5 per cent., already paid, made $12\frac{1}{2}$ per cent. profit realised on the year's business.

The report of the Civil Service Supply Association (Limited) for the half-year ended December 31 states that goods were brought to the amount of 798,224\(\alpha\), and sold to the amount of 905,934\(\alpha\). The stock in hand at the close of the year was valued at 298,656\(\alpha\). The gross profit on the trading amounted to 118,807\(\alpha\), and 3.632\(\alpha\). was received from other sources of revenue. The working expenses were 92,221\(\alpha\), being at the rate of 10\(\alpha\). 3s. 7d. per cent. on the amount of the sales. The net balance amounted to 22,718\(\alpha\), and there is available a total of 25,661\(\alpha\).

A BROOKLYN DRUG CLERK'S SUICIDE.—Benjamin H. Bird, lately employed in Mr. John F. Morrissey's "Always Open" Drug Store, was discharged from that service for supposed alcoholic intoxication, but it is now believed that he was a victim of the morphia habit. He went to McKesson & Robbins, and, using the name of Mr. Morrissey, obtained an ounce of prussic acid, with which he committed suicide soon after.

Trnde Notes.

MR. H. B. CLARKE, of 37 Great Tower Street, E.C., announces that he has joined the firm of Chas. Mangold & Co., drug and chemical merchants, of 37 Mineing Lane, E.C.

MESSRS. HAYWARD TYLER & Co., of Whiteeross Street, E.C., have received advice that the highest award for aëratedwater machinery has been awarded for their exhibit.

MESSRS. DAVID M. STIGER & Co., wholesale druggists, of New York, have dissolved partnership, and the business of the house, in conjunction with that of Fraser & Lee, also dissolved, has been taken over by Messrs. Hy. W. Williams, O. M. Stiger, Chas. E. Lovett, and Frank D. Otis, who will continue it under the style of Williams, Stiger & Co.

MESSRS. BARTLETT, HOOPER & Co., of 43 King William Street, E.C., have added the manufacture of "French perles" to their capsule business. We believe they are the first English manufacturers who have made these. These perles have an elegant appearance, are easily swallowed, and contain fair doses of the medicines which they envelope.

Mr. W. Cowan, of 45 Dundas Street, Glasgow, sends usone of his hospital vaccination-shields, which he is now offering at a remarkably low price. The shields are well made, and afford as perfect protection to the child's arm as the elegantly-finished 2s. 6d. article. The new shields can be sold at 3d., yielding a good profit, and each is enclosed in a box with directions.

MESSES. THOMPSON, WALTERS, HOLE & CO. (LIMITED), who have taken over the business of Messes. Thompson, Millard & Co. (Limited), will carry on the business of the old firm on similar lines to those hitherto followed with much satisfaction to their enstomers. The new firm take over the debts of their predecessors, and the management of the business remains in the same hands as heretofore.

WE have before us a sample of Hassall's Liebig's extract of meat and malt wine, which appears to be an excellent combination of the digestive and nourishing solids with a sound red wine. Hassall's preparation is palatable, and may be obtained medicated with quinine, pepsine, or iron. It is neatly put up, the label and wrapper being attractive. We observe that the makers—Hassall & Co., 7 St. Ann's Street, Manebester—are willing to snpply a sample to anyone who wishes to test the wine.

Some important changes have just taken place in the management of the New York Quinine Works, the new president being Mr. H. D. Robbins, of McKesson & Robbins; the vice-president and secretary, Mr. James Hartford, of the firm of Schoellkopf, Hartford & Maclagan; the treasurer, Mr. J. L. Kirkland, a gentleman connected with the house of McKesson & Robbins; and the other directors, Messrs. F. G. Meyer, of Meyer Bros. & Co., and Thos. N. Cnthbert, an attorney. Mr. Henry W. Fuller, who has filled the position of treasurer since 1886, and Dr. Robbins have retired from the Board of Directors.

FLETCHERS' Hydrobromates.—Since their introduction some years ago, Fletchers' syrups of the hydrobromates have acquired a distinctly unique reputation amongst medical men. The combination is a happy one, as the presence of the halogen element ensures that the disagreeable symptoms, which in many cases prohibit the administration of quinine, are not produced by these syrups. We observe that Messrs. Fletcher, Fletcher & Stevenson, the manufacturers, are introducing the hydrobromates in a new form for the convenience of dispensers and patients. In a strong cardboard case, covered with leatherette paper, there are enclosed a bottle of the hydrobromates, an optimus-glass teaspoon measure, and a glass rod. A handsomely-engraved wrapper, printed in two colours, envelopes the whole. It does not seem to be known that this combination of hydrobromates is decomposed by metal spoons; it is for this reason, the makers state, that "the syrup should always be measured in glass and not allowed to come into contact with any metal." Hence the addition of a measure and stirring-rod to the retail packet. The elegant get-up of this new form of the hydrobromates and their growing popularity should make the cases a profitable addition to the pharmacist's stock.

NATURAL APERIENT BITTER WATERS, By Otto Henner.

THE writer ealls attention (Analyst, page 36) to the growing popularity of natural aperient magnesian waters. He points out that, being obtained in the majority of cases from very shallow wells, they are liable to very wide fluctuations in composition, and consequently in therapeutical activity, and that it is impossible to represent, once for all, the composition of the waters by a single analysis. True mineral waters, coming from great depths, may and do remain unchanged in composition for a long number of years, but magnesian bitter waters, as at present collected, fluctuate in strength almost from day to day; stronger waters collect at the bottom of the wells than in the upper strata, and it is possible, therefore, to obtain at will strongly or relatively slightly saline solutions from the same well.

In proof of this analyses are given of six different waters, all coming from the Ofen district in Hungary, and frequently taken to be equivalent of each other. The specific gravity of these varied from 1.0311 to 1.0496, and the soda, magnesia, and snlphuric acid were found to be equivalent to the following proportions per 10,000:—

Magnesium sulphate 162·00 159·57 170·55 215·85 196·98 291·72 304·80 30dium sulphate 155·16 181·76 210·11 201·27 220·79 208·53 2.1·09 317·16 341·33 280·66 417·12 417·77 500·25 515·89

Taking the proportion of magnesium sulphate as the standard of strength, it is seen that of sample B 1.91 parts are necessary to produce the same effect as one part of sample G.

As the laxative powers of magnesium sulphate and sodium sulphate are nearly equal, we may more fairly compare the totals of the two salts as the measure of the activity of the waters. In that case 1.63 parts of sample A are equal in effect to one part of G. The readiest measure of the strength is the specific gravity. According to this A stands to G as 1 to 1.59, the quantities to be taken being of course inversely proportional.

It appears to the writer that the medical profession should be distinctly aware of the wide differences in the composition of these waters, and should either insist upon some measure of uniformity, which by care in bottling the waters could easily be obtained, or upon an exact statement of strength upon each bottle, be it by analytical figures or by specific gravity only

specific gravity only.

Imagine a patient who has been accustomed to a particular dose of, say, water A, taking an equal dose of sample

(G. The purgative action would be increased by almost two-thirds. Even if serious consequences might not be the result, the uncertainty of the remedy is apparent.

There could not be any practical difficulty whatever in obtaining uniformity in composition, by excluding from the wells all surface water, or such coming from strata peor in saline ingredients. Even then fluctuations, but within narrower limits, would occur. An exact statement of the specific gravity of the contents of each bottle should therefore be made, so that any medical man would be in a position exactly to determine the necessary dose. The analyses at present given upon the labels are of no value whatever for this purpose, as they do not represent the composition of the contents, but of samples specially selected to show high saline proportious, and often made many years ago.

MARRIAGES.

BURFORD—EMERY.—At King's Heath Baptist Church, on February 14, by the Rev. Robert Gray, assisted by the Rev. W. K. Burford, brother of the bridegroom, Samuel Francis Burford, F.C.S., second son of George Burford, of Clarendon Park, Leiecster, to Clara d'Este, younger danghter of George Emery, of The Grove, Moseley, near Birmingham.

PRINGLE—SANDERSON.—At 274 High Street, Kirkcaldy, on February 14, by the Rev. Wm. Fairweather, M.A., Dunnikier Free Church, George Pringle, chemist, Burntisland, to Barbara Maxwell, third daughter of the late George Sanderson, Cairns Mills, Duns, Berwiekshire.

DEATHS.

LAMBERT.—Mr. Jordan W. Lambert, the founder of the Lambert Pharmaceutical Company, one of the leading proprietary houses in St. Louis, Ill., U.S.A., died on January 6, of nervous prostration. He was in his 37th year.

MITCHELL.—At the Forbes Dispensary, Inverness, N.B., on February 2, Alexander Mitchell, chemist, in his 44th year, He had acted as resident chemist at the Forbes Dispensary for the past five years.

Scott.—We have received notice of the death of Mr. William Andrew Scott, of Rochdale, at the ripe age of 78. Mr. Scott was at one time a wholesale druggist and drysalter, and had been very sneeessful. He was an ardent politician, supporting the Liberal cause, and his warmth for this led him to purchase the Rochdale Observer, the Heywood Advertiser, and the Southport Guardian, which have for some years been conducted under his direction.

CHEMISTS ON THE LONDON COUNTY COUNCIL.



CAPTAIN PROBYN (Strand).
From a photograph by Lombardi & Co., Pall
Mall East.



Mr. T. H. WILLIAMS (North St. Paneras).



MR. A. McDougall (Poplar).
From a photograph by Frudelle & Young,
Regent Street.

THE portraits given above are likenesses of gentlemen connected with the drug and chemical trades who have secured seats on the London County Council. They have been previously published in the *Illustrated London News*. Captain Probyn is the principal in the firm of Hooper & Co.,

ehemists, &c., Grosvenor Street, W., Davies Street, W., and Pall Mall East, W.; Mr. Williams is the principal in the firm of Idris & Co., mineral-water makers, Kentish Town; and Mr. MeDougall is a retired manufacturer of chemical manures and disinfectants.

TRADE-MARKS APPLIED FOR.

THE Trade Marks Journal publishes the following notice:—"Any person who has good grounds of objection to the registration of any of the following marks may, at any time within two mouths of the date of this journal, give notice in duplicate, at the Fatent Office, in the form 'J,' in the second schedule to the Trade Marks Rules, 1883, of opposition to such registration." All communications to be addressed to H. Reader Lack, Esq., Comptroller General, at the Patent Office, 25 Southampton Buildings, Chancery Lane, London, W.O.

From the "Trade Marks Journal," February 13, 1889.

- "ASPINALL'S ENAMEL"; for enamel in the nature of paint. By H. E. Aspinall, trading as Aspinall, Aspinall & Co., Hollydale Works, Peckham. 82,245.
- "Cresyl Jeyes," on fancy round label; for sanitary, veterinary, and horticultural preparations. By Jeyes' Sanitary Compounds Company (Limited), 43 Cannon Street, E.C. 81,826.
- Figure of two horseshoes; for horse balls and powders. By A. Leng & Co., Bishop Auckland. 83,677.
- "THE LATE MARK BROUGHTON'S OLD ORIGINAL OUNT-MENT," and other wording, on label; for an ointment. By Alfred Broughton, 99 Meadow Lane, Leeds. 71,303.
- 4 CAJUPUTI SOAP," and female figure; for medicated soap. By W. M. Gillam, 49 Penywern Road, South Kensington, S.W. 80,424.
- "SAPONAT," and signature; for fluid toilet soap. By Everest & Co., 6 Oxford Circus Avenne, W. 80,654.
- "Grace Darling's Pills"; for pills. By Mary Senior, 26 Clarendon Road, Shaw Lane, Headingly, Leeds. 81,493.
- Figure of a hawk on perch; for prepared paper for medical and pharmaceutical purposes, and medicated toilet paper. By F. Hawke, 2 Queenhithe, Upper Thames Street, E.C.
- "ELLEN'S CRYSTAL BALM," on label; for medicinal preparations for external use. By Maria J. Ellen, trading as Ellen, 63 Dawson Street, Dublin. 82.411.
- "Uncle Gabriel's Cold Cure," and other wording, on fancy device; for cough and cold medicine. By W. White, trading as Don Zylloene, 2 Exchange Buildings, East Dulwich Road. 82,810.
- "RICHARDS & Co.'s WORCESTERSHIRE SAUCE," and "GLAD-STONE, DISRAELI & Co.'s WORCESTERSHIRE SAUCE"; for pickles, sauces, relishes, and other condiments. By T. W. Parrott, trading as Richard Millar & Co., also as Richards & Co., and Gladstone, Disraeli & Co., 22 Essex Street, Mare Street, Hackney, E. 82,172 and 82,174.
- "Hoe's Chlebrated Belvior," and other wording, on label; for chutney, sauce, &c. By C. K. Sourby and T. Hoe, trading as Hoe & Co., Bottesford. 82,561.
- "ROYAL CAFÉ SAUCE," and other wording, on label; for sauce. By Peter Tyrer, 70 Long Lane, Borough, S.E. 82,636,
- "Dr. Hewitt's Digestive Sauce," and other wording, on label; for sauce. By H. H. Hewitt, 10 Middleton Street, Clerkenwell, E.C. 83.140.
- "Gordon & Dilworth's New Process Tomato Catsur"; for catsup. By Gordon & Dilworth. St. George's House, Easteleap, E.C. 83,168.
- "ROBBINS' CLEANER'S HELP"; for a soap or soaps (either paste, powder, hard, or fluid). By J. Robbins, 78 Frithville Gardens, Uxbridge Road, N. 82,177.
- "CLARKE"; for nightlights. By S. Clarke, Child's Hill, N.W. 82,203.
- ORIENTAL CAPILLIGERENE," and other wording, on label for a preparation for the hair. By E. v. S. Kiste-Dejean 59 Rue de Brabant, Brussels. 79,846.
- "FLETT'S FRAGRANT CREAM," and other wording: for a toilet article. By A. Flett, Uddingston. 81,907.
- "THE COLONEL RIGBY'S COMPOUND EXTRACT OF POME-GRANATE"; for hair lotion. By A. Austin, Malvern. 83,428.

"Kenllworth Violet Powder," other wording and picture, on round label; for violet powder. By Southall Brothers & Barelay, Birmingham. 82,842.

From the "Trade Marks Journal," February 20, 1889.

- "St. Jacobs Oil for Veterinary Purposes," on labelbearing figure of horse's head, &c.; for a medical preparation. By the Charles A. Vogeler Company, 45 Farringdon Road, E.C. 82,154.
- "MILLER'S TIG AND RHEUMATIC LINIMENT," on oval label: for a liniment. By George Millers, 147 Price Street, Southwick, near Birmingham. 79,820.
- Figure of a man (the one who "recovered of the bite"):
 for a medicinal preparation. By Charlotte E. Young,
 56 Norwood Street, Hull. 79.841.
- "Francis's Balsam of Linseed and Honey," and other wording, on label; for a medicine. By J. B. Francis, 53 Hope Street, Wrenham. 79,897.
- "MISS LANGTRY'S SKIN LOTION"—the "L" of Langtry formed from the trunk of a tree, and a reclining female figure: for medicated lotion. By R. W. Stevenson, 19 Victoria Street, Derby. 80,102.
- "MATTERSON'S DAY AND NIGHT CO-OPERATIVE DRUG STORE," on figured label; for chemical substances, Class 3. By J. K. Matterson, 108 New Oxford Street, W.C. 82,511.
- Portrait of a young man holding box of pills in his hand; for pills. By R. Hutchinson, 156 Loughborough Road, S.W. 81.064.
- "ST. ANTHONY'S OIL," and signature: for oils, medicinally prepared. By A. Francis, trading as Francis & Co., 45¹/₂ Belgrave Street, Leicester. 82,065.
- "BALM OF BETHESDA," and monogram on round label; for a medicated mixture for tender feet. By R. Terrot, Woodstone Manor, Peterborough; and A. G. Little, Oakfield, Tynemouth. 81,980.
- "CLARIDGE'S COMPOUND ANTISEPTIC AND LIVER PILLS," and other wording, on round label; for pills; and "Claridge's Antiseptic Compound," and other wording, on label; for salve. By J. Blackbeard, 119 Brompton Road, W. 82,106-7.
- "OLIVE OINTMENT," and designation of depositors under monogram; for an ointment. By J. Droiteroy & Co., 3 Newcastle Street, Strand, W.C. 82,828.
- "ZEPHYRINE"; for chemical substances, Class 3. By C. Monckton, Torrington House, Pinner. 83,823.
- "JUNGLE SAUCE," on picture label; for sances, pickles, &c By T. Taylor, R. J. Williams, and R. Irwin, trading as the Jungle Sauce Company, 5 Whitten Street, Liverpool, 1888, 82,601.
- "Norfolk"; for baking powder, egg powder and similar articles. By Smith & Sons, Magdalen Street, Norwich. 83,020.
- "PREPARED COCOA," and other wording, on label, and "Epps's Homocopathic Cocoa"; for preparations of cocoa. By J. Epps & Co., Holland Street, Blackfriars. 84,042-3.
- "Greig's Petrolio Soap"; for common soap. By J. M. Greig & Co., 37 Walbrook, E.C. 82,062.
- "FLOTILLA," "TURTLE," and "LIFE-BUOY"; for common soap, starch, bluc, &c. By Lever Brothers, Warrington, 83,192, 83,196, and 83,373.

A SOBERING DRAUGHT.—A correspondent of the British Medical Journal tells of a drunken doctor in the Alleghany Mountains, who, when in a state of semi-drunkenness, took a piece of ammoniæ carb, out of his surgery bottle and chewed it. The effect was almost magical. The contents of the stomach were quickly ejected, the usual depression not following, so that he was able to at once resume his debauch. The remedy has been tried many times since with great success. The drunkard can generally be roused and got to swallow $\frac{1}{2}$ drachm of ammon, earb, dissolved in a wine-glass of water, which drunk off will prove immediately effective as an emetic and restorer.

CHEMISTS WINDOW DISPLAYS.

A CONTRIBUTOR, attracted to the subject by our competition for a chemist's Christmas window display, has been investigating the subject since, and writes as follows:—

There can be but little doubt that the majority of chemists are indifferent as to the artistic dressing of their shop windows. This indifference is largely due to the notion which has percolated and fixed itself in the pharmacist's mind, that his enstomers only come to him for articles they are absolutely in need of. Many give utterance to the opinion, based on the above experience, that as far as they are concerned they could do just as well without any window display whatever, and from the attention paid to the unfortunate window it may be assumed that they are quite right in their conclusion. But it should be remembered that there is always a large class of the community, ladies chiefly, who delight to spend an hour or so in examining and criticising shop windows, and upon whom it is well to leave a good impression. Many not intent upon "shopping," but merely "looking at the shops" for the nonce, will require some articles at a future date, and would be likely to get them, or would recommend their friends to obtain them, at the shop which by its window struck their attention particularly.

The chemist's window ought to be his best advertising medium, and he is guilty of something more than want of artistic taste when he disregards the duty of rendering it attractive. How often its appearance is disregarded may be speedily determined by any observer. Such an one will find, probably, that the owner of the first shop he investigates is evidently of opinion that his window makes an excellent storehouse for surplus goods. A hamper or two has just come in from Maw's, and measures (still undusted), feeding-bottles, chest protectors, and menthol cones have been heaped together regardless of the effect, which repels rather than attracts. In a few days the only difference you will see is that the surplus stock is apparently less in the window, more convenient places having in the interim been found. The cards of combs. which were previously standing upsidedown, have been righted, but untidiness is stamped on

everything.

The second chemist's window represents its owner as an antiquated character; he regularly clears it out once every three or four months, whether it requires it or not, and after dusting the articles carefully, replaces them exactly as they were before. Dummies are plentiful in his window, and, like the show-cards, are faded from several years' suns. Here may be seen the jar of honey which seems, by its appearance, to be intended as a patent fly-catcher, so successful has it been in this line; bottles of limes and glycerine, with a clear line of demarcation, apparently where the limes end and the glycerine begins. Everything is unsightly, and the lady may be excused if she passes by on the other side.

The next chemist believes in everything clean and nice,

The next chemist believes in everything clean and nice, but he has a peculiar love of overcrowding his poor window. Juliubes on glass trays—very inviting—are flauked so closely with cod-liver oil and worm-powders that the general effect is spoilt. Every inch in his window is filled, and the impression conveyed is of a heap in which nothing is

identified.

This sort of crowding is fatal to good window display, and can only be performed successfully by the "cutting" shop, where the heap gives the idea of large stocks and extra discounts. But even the "cutter" is aware that without large printed cards his window is the reverse of attractive.

printed cards his window is the reverse of attractive.

Glance at a few other traders. The milliners and jewellers we notice in the best shops are careful to make a good use of a ground basis of plush, velvet, or silk, and have slowly learnt that a few things well displayed are better than a heaped profusion. But it is among the china dealers that we notice of recent years the greatest improvement in the art of window display. Graded steps covered with rich plush or velvet show off some unique designs in glass or china, interspersed with coloured lamps. Glass supports from the sides and back, and each shelf occupied with one vase or other piece of ware only, make the general effect most pleasing and handsome. These windows are generally dressed every two or three days.

Surely the chemist may take a lesson from his fellow-tradesmen. It is probable that if these dealers find their extra skill and ingenuity in artistic window display pay better than formerly, it would do so in the case of the chemist. In festive seasons he would attract the attention which many of his saleable commodities deserve, whilst the improved appearance of a window must reflect credit upon, and at the same time act as a better advertisement for, the owner.

Two of the fundamental laws that should govern window displays are, therefore, first, to avoid overcrowding; secondly, to change frequently. Even a good article well displayed should be withdrawn occasionally and reintroduced only after a time. As to the actual display outlines only need be given; details must be filled in according to the requirements of the neighbourhood and the stock of the proprietor. A background of mirrors and plush is always effective. Stained glass at the back of the window gives a rich appearance to the interior of the shop, but loosely-hanging plush curtains are the handsomest. The curtains need not be more than a yard in length, and the lower part of the window may be of silvered glass. The end of the window against the wall should be a mirror up to the top of the window, as this increases in appearance the size of the window immensely, and any supports or divisions of the back may have mirrors let in with advantage.

The centre of the window might be raised a foot or so, and would form a convenient platform on which to exhibit a statuette, such as Pears's "Dirty Boy" or Southall's "Ship, or the "Eureka" terra-cotta figure, and in any case should be surrounded by graduated steps filled with the articles which the statuette advertises. Such novelties are always admirable centre objects. Glass shelves, curved or straight, should be fitted at the back; three are ample, and these should vary in width, the broadest being at the bottom. Small round glass shelves to take a few bottles, &c., should protrude from the side of the window towards the centre and back. Fairy lamps may be interspersed with good effect, whilst those snrrounded with flowers or even artificial moss are always pleasing. The front shelves may display such transparent preparations as codeia jelly, glyeerine jelly, &c., and with the light behind these articles look exceedingly attractive. Pot-pourri jars. filled with pot-pourri, are recent novelties that are selling well. A neat label with "White Rose Pot-Pourri" will greatly assist their sale.

Clinical thermometers should be exhibited in a plush or velvet lined case, and a good object is lactometers standing in a whitened liquid at the specific gravity to represent milk.

Glass filters in working order are pretty objects, especially if the unfiltered water be coloured with a few drops of solution of permanganate of potassium, and the filtered water comes through bright, clear, and colourless.

Glass trays with various ordinary drugs are rather overdone, and should only be adopted in the case of something bright and attractive, such as the seeds of Abrus precatorius, &c. Small printed labels should clearly state what the substance is, and interesting items concerning their native uses

should be carefully included.

An extremely pretty picture is afforded as follows:—Procure a half-gallon fish globe and cover the bottom, to the depth of two or three inches, with silver-sand; in this layer slightly imbed a few pieces of sulphate of iron, sulphate of aluminium, and sulphate of copper, broken into long splinters; pour over the whole a solution of silicate of soda (commercial water-glass) one part and water three parts, care being taken not to disturb the chemicals.

Upon standing a week a dense growth of the silicates of the various metals will be seen in various colours and fantastic shapes. Now displace the silicate of soda solution by clear water, through an indiarmbber tubing, so as not todisarrange the growth. This is a permanent chemical garden which, suspended by brass chains in the centre of the window with a fairy lamp behind, has a most charming

appearance.

A display of chemical salts is always interesting. These should be exhibited in flat dishes with glass covers and, if white or colourless, standing on dark velvet or paper. Large masses of crystals look very handsome under glass shades, but they should be carefully contrasted with the surroundings, and suitable backgrounds arranged according to their colour.

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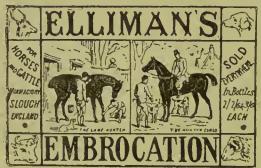
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PATENT MOVABLE BLOCK. See Advertisement, page 28 (bottom folio).







THE PHARMACY BILL, 1889.

PARLIAMENT has re-assembled for a new Session, and the only pharmaceutical attraction in its programme so far promises to be the Curriculum Bill. That uninteresting measure certainly holds the field, as far as British pharmacy is concerned. We had hoped to have had something better worth agitating for this year. It seemed as if the time was ripe for reasonable but vigorous action-action in which all sections of the trade could cordially unite. Some of the best friends of the enriculum scheme appeared to be getting

lukewarm in their enthusiasm about it. The feeling seemed to be spreading that there was nothing in it worth fighting for, and Parliament had itself, by the branch shop clause of last year, offered a valuable opening for amending the Pharmacy Act of 1868. But we appear to have miscalculated. Like many far eleverer people than ourselves, we evidently mistook our own impressions for a general creed. The representatives of the Pharmaceutical Society at Bloomsbury adopted the Curriculum Bill pure and simple unanimouslywith a queer sort of unanimity, it is true, but nominally so. The members of the Society seem to have acquiesced, tacitly at any rate; the trade generally has made no protest worth speaking of; and the Conneil would have been entirely unjustified if they had allowed the almost unsupported arguments of a journal to carry weight against their superior, and, we suppose we must admit it, unanimous opinion. We offer our best thanks to the dozen gentlemen who have written to us, privately and for publication, in support of our views, but we must sadly ask them, What are we few among so many?

But before passing from the subject we should like to say a few words in support of our suggestion of two weeks ago, to the effect that chemists ought to be willing to submit to a clause penalising the proprietor of any pharmaey who should allow the sale of a scheduled poison in his establishment by an unqualified person, and in reply to the letters sent us in opposition to this idea. The law at present makes it possible to fine, not the proprietor, but the unqualified seller of a poison. The judges laid this down in the House of Lords, and their doctrine has been since aeted upon in a well-known Scotch case. There can hardly be a question, we should think, that if anybody is to be fined it should be the proprietor who authorises the illegitimate action, rather than the assistant who merely follows instructions. But our correspondents evidently think it unreasonable to restrict either master or assistant, if only the former is qualified. "It would be ridiculous," said Mr. R. H. Parker, "that a ehemist should be liable to a penalty if he allowed his junior (whom he may have earefully trained through a three or four years' apprenticeship) to sell a pennyworth of white precipitate or paregoric." That may be a good argument for omitting white precipitate and paregorie, but it is a dangerous one to use in regard to the sale of poisons generally. Mr. Parker gives an extreme ease; but his umbrella must be big enough to eover extreme cases at the other end of the sehedule. If Mr. Parker's apprentice of three or four years experience may legally sell paregoric, his apprentice of three or four weeks' experience must be legally entitled to dispense solution of strychnine in the light-hearted manner adopted lately, with a fatal result, by the unqualified youth at Lewisham. But in regard to extreme eases it may as well be remembered that there are very few Aets of Parliament which could not be made ridiculous by prosecutors intent on the purpose, and the remedy against that result is to entrust their administration to a serious, impartial body. The Pharmaeeutical Council, which holds the power of prosecuting unqualified vendors of poisons, has neglected to exercise it against assistants even in the most flagrant cases. Their only actual decision on this point came to them accidentally.

But "W. R. M." who nominally supports Mr. Parker will surely satisfy the latter gentleman of the unsound position both have taken up. The condition of things revealed in "W. R. M.'s" letter approaches the terrible. "Mine is a middle-class trade," he says, "in a country market town; in the shop there are usually myself, assistant (unqualified), and two apprentiees. Market day is the farmers' day, when cattle medicines, recipes, and country prescriptions are most

On such days it is not an unusual thing, especially during the lambing season, to sell during the afternoon 3 or 4 lbs. of laudannu, in quantities of from 2 to 8 oz. In order to get through the extra work of that day, it is necessary to make some little division of labour. 1, therefore, generally give my attention to prescriptions, answering inquiries from customers, and such prescribing as may be necessary for man or beast. But, according to your theory, if 1 oz. paregorie, or 4 oz. landanum, or 2d. oxalie acid, or a 3d. vermin-killer, or 1 lb. arsenie for wheat dressing, or 3d. pile salve, or a bottle of carbolic acid for disinfecting be asked for, I must leave prescriptions, eustomers, or what not, and weigh, measure, wrap up, and deliver any of these things, or else risk putting myself at the mercy of any busy policeman who happens to be within sight, or who chooses to lay a trap for my unwary feet,"

Then this gentleman asks in a tone of banter, but evidently convinced of the conclusiveness of his question, whether he is to be fetched out from his dinner if Godfrey's cordial, paregoric, or, for the matter of that, a pound of arsenic be asked for. "W. R. M." could very easily square all his difficulties by the simple expedient of employing a qualified assistant instead of an unqualified one; and in such a rattling trade as his, the extra 10l. a year which it might cost him is a not unreasonable demand on behalf of his customers.

EUONYMIN.

For some time there has been considerable discussion amongst pharmaeists as to the correct colour of euonymin. The green variety has always been the more popular in this country, probably because it was the kind with which Professor Rutherford, of Edinburgh, made the experiments that resulted in the general use of the remedy. The brown variety has been known to be remarkably free from inorganic matters, but the green is liable to large admixture therewith for the purpose of preservation. Two British observers agree that phosphate of ealcium is the diluent employed, a third alleging that barium carbonate is present in some samples. On this point we have a communication from Mr. J. U. Lloyd, of Cincinnati, ex-president of the American Pharmaccutical Association, who has been connected with the eeleetie school of practitioners for many years, and is thoroughly conversant with the history and manufacture of resinoids. Mr. Thomas Christy also favours us with a letter on the same subject which he has received from Mr. Lloyd. Brown euonymin was the original style of the drug used by celectic physicians, and is made by methods similar to those adopted for other resinoids, no saline bodies being used in its preparation. In the finished state it yields but little ash, showing the absence of inorganic diluents. It is largely soluble in alcohol and water, is very bitter, and produces the therapeutic action of the drug. It is to be preferred to the green variety, which is of later introduction. In the preparation of green enonymin means are taken to retain in the finished product the green colouring matter of the shrub bark, which is very green, whereas the root bark is yellow in colour. These barks are used in proportions relative to the colour required, some houses requiring greenish-yellow enonymin, and others colours varying from that to blnish-green. The method whereby the colour is retained is by precipitating the tincture in the ordinary way, with the addition of proper proportions of alum and sodium earbonate used alternately. The precipitate, therefore, contains, in addition to the plant products, amounts of aluminium hydroxide varying from

40 to 60 per cent, of the whole. If the natural colour is not so satisfactory as to meet the commercial taste, it is modified by the addition of an unobjectionable vegetable colouring matter. It is impossible to produce green euonymin without this admixture of inorganic material. As to the presence of phosphate of calcium in some commercial specimens, Mr. Lloyd does not speak; but we may fairly assume, in the light of what he tells us, that the absence of alumina from all analytical reports would seem to indicate that this body has been overlooked by investigators, and, probably, phosphate of ealeium has taken its place. As to the use of barium carbonate as a diluent Mr. Lloyd is decided. He cannot accept the statement, barium carbonate being too dangerous. It would hardly be safe for a person to take the medicinal dose of euonymin if it was contaminated with the percentage of barium which has been recorded as present. It will thus be seen that Mr. Lloyd's experience is quite in accord with the opinious of leading authorities in this country, and it is to be hoped that the use of green euonymin will be steadily discouraged, and that the brown variety will receive recognition in the next edition of the British Pharmacopæia.

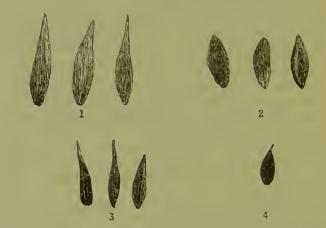
EPSOM SALTS.

THE price of Epsom salts, in common with that of many other chemical products, had recently fallen to a figure so low that the manufacturers can only have had the smallest, if any, margin of profit, and the announcement, which was made a few days ago, that the makers in this country and on the Continent had agreed upon a simultaneous and equal advance in price was scarcely a matter for surprise, considering the modern tendency towards common action which is now so pronounced in the chemical trade. It would seem, indeed, as if the recent advance in the quotations is only intended as a preliminary move, and that ultimately the combined manufacturers contemplate further gradual advances in their quotations if they should find their combination to work as smoothly as they anticipate. Whether they will be able altogether to impose their own terms upon the consumers must, of course, depend largely upon the quantities which are held by dealers outside the combination, and upon many other contingencies, the importance of which can only be estimated by practical experience during the first period of the working of the pool Of late years the price of sulphate of magnesia has been steadily tending downward. About thirty years ago the quotation averaged about 9l. per ton, but in 1888 the chemical could be purchased as low as 31. per ton. Since then, however, the cost of nearly all the articles used in the manufacture of the salts, including the raw material itself, has been much enhanced, so that even the advance of about 25 per cent, now agreed npon does not, the manufacturers aver, do much more than cover the increased outlay which they themselves are incurring. The English makers have of late been severely pressed by the competition of German manufacturers of Epsom salts, who are, we should think, placed in quite as favourable a position as our own in the matter of raw material, for while dolomite, or mountain limestone, is found in abundant quantities in this country, and is available at a comparatively small cost to our makers as a source of the salt, the Germans have a practically inexhaustible source of supply of crude material in the kieserite of the Stassfurth mines. The numerous private firms and companies who work these mines have during the last few years always regulated their output and sale by a common understanding. and we believe that some time ago they raised the price of their principal products to a not inconsiderable extent. The

Stassfurth deposits, which have been known for exactly half a century, though they have only been exploited to their present extent for a much shorter period, have been formed by the drying-up of an immense salt-lake, and contain, in several layers, and in order of their greater solubility, rock-salt, polyhalite, kieserite, carnallite, and other salts. One of the several uses of kieserite, which is commercially sold with a guarantee of at least 50 per cent. of magnesia sulphate, is the manufacture of Epsom salts. The greater part of the salts is not used in medicine at all, but is principally sold, we believe, for the dyeing and starching processes of cottons, and the enhanced price of the article will, therefore, fall more heavily upon the manufacturer of soft goods rather than upon the druggist.

THE BOTANICAL SOURCE OF STROPHANTHUS SEED.

In his paper on Strophanthus hispidus, communicated to the Royal Society of Edinburgh, Professor T. R. Fraser called attention to the fact that the species of strophantlms named S. Kombé by Professor Oliver is now regarded by that botanist as a variety of S. hispidus, because its distinguishing characters do not vary from those of the latternamed plant more than might be expected as the result of distribution over so wide an area. When Professor Oliver originated the species Kombé there was a good deal of uncertainty as to whether this was the source of the seeds of commerce; while, on the other hand, not a few workers on the subject thought it likely that the Kombé plant might be the origin of the white strophanthus seed, which has not, so far, been introduced into commerce. Professor Fraser considers that S. hispidus has in all probability furnished the materials for the extensive work of the past twenty years on the chemistry, pharmacology, and therapeutics of strophanthus, and, therefore, that it is the species to which most importance should be attached. Now, great as may be the differences which variations in climate, situation, soil, &c., are capable of producing in plants, it is difficult to conceive that these influences can account for the diversities of character presented by the seeds of strophauthus at present known. It is not our aim to discuss the comparative morphology of any other part or parts of the plant, since no one can doubt the correctness of so great an anthority as Professor Oliver in his conclusions regarding the specimens he had in hand. There are in the market, or have appeared from



time to time, four distinct forms of strophanthus seed, and, without dogmatising as to their betanical origin, we give figures of these, which not only mark the difference between them, but cannot be said to predispose the observer into believing that they are all obtained from a common species of the genus strophanthus.

Nos. 1 and 2 represent the East African strophanthus seed of commerce, known as the greyish-green or green seed. No. 3 shows the characters of the brown seed, and No. 4 those of the seed of the true S. hispidus. This is the only seed which we have so far been able to identify with certainty. It is small, chesteut-brown, and, though covered with a few short and tough hairs, is, in comparison with the green seeds of commerce, nearly bare.

Nos. 1 and 2, mixed, constitute the true strophanthus seed of commerce, with which, both on the Continent and in this country, all the clinical trials of the last three years have been made. It has been shown that these seeds when cultivated produce two classes of plants so dissimilar that all observers have been convinced that they are two species; the leaves of one of them being covered with hairs, while the other is glabrous. The seeds themselves are greyishgreen to brown, and more or less covered with numerous glistening silky appressed hairs. No. 3 is the so-called brown seed, from the West Coast of Africa; it is brown, and provided with bristly hairs nearly destitute of lustre. Both in size and in the length of the hairs this seed is intermediate between the green seed of commerce and that of the true hispidus. Although this brown seed contains strophanthin, no clinical reports of its use have yet been published.

Taking all these facts into consideration, and admitting the probability that the characters of the later arrivals of strophanthus specimens point to a single species as their source, it may be reasonably doubted whether we have sufficient evidence to justify us in concluding that the African strophanthus seeds are all derived from S. hispidus. The striking differences conspicuous in these seeds make it almost impossible to doubt that there are several distinct species of the genus, and such a theory explains the differences more naturally than any extent of distribution-area could do.

COMMERCIAL TOPICS.

THERE are over forty subjects suggested for the consideration of the annual meeting of the Association of Chambers of Commerce in London next month. Bradford wants to raise the question of rings or trusts, and asks that the association should appoint a special committee to consider the practicability of a legal enactment for the prevention of an abuse of the right of free combination tending to the artificial rise of prices for articles of general use and consumption. Bradford also urges the extension of the Trade Marks and Merchandise Marks Aet to all British colonies and possessions. London suggests with regard to the latter Act that, instead of requiring the indication of the country of origin precisely on foreign goods exported, it would be preferable that the words "foreign manufacture" only should be required. Heckmondwike complains that in the new Act the suggestion of the Board of Trade Committee to the effect that any invented word not to be found in the vocabulary of the English or any other language might be registered has not been adopted, and wants it pressed. Nottingham, Leicester, and Bradford are solicitous for facilities to be given for technical schools and colleges. Bristol urges an amendment of the Adulteration Acts to make it obligatory upon county and municipal authorities to make arrangements with the various public or other fully qualified analysts, so that retail traders or other persons, being ratepayers in their respective localities, shall be entitled to procure a reliable quantitative analysis of any articles of food, &c., that are subject to the provision of the Food and Drugs Act, at a nominal fee for each sample analysed. Hull calls attention to the vexatious

restrictions of existing Customs regulations in Russia with a view to their redress. Newcastle and Gateshead advocate that general parliamentary elections shall be confined to a much shorter period than that which they now cover; Swansca would like Bills which have passed their second reading in one session of Parliament to be taken up where they left off in the succeeding session; and Dublin would like to see a special commission to consider private Bills to take the place of select committees, and to have the power of holding inquiries locally. Bolton and Keighley think certifying surgeons under the Factory Acts are unnecessary and might be abolished. Newcastle and Gateshead want greater facilities from the Post Office, and think that department looks on itself too much as a revenue-carning institution. Southampton desires to see an English school of forestry established. Bradford presses for the re-introduction of the Bills authorising limited partnerships and tribunals of commerce, which fell through last session. London urges the abolition of the Metropolitan Coal and Wine Dues. Galashiels desires to express sympathy with the Imperial Federation League. Birmingham wants the Government to approach other countries with a view of establishing a free silver as well as gold coinage at a ratio of 15\frac{1}{2} to 1; and several ports suggest shipping topics. This programme will be sufficient to occupy the delegates pretty fully during their three days' conference. The Association represents a very influential section of the British commercial world, and the conclusions it arrives at deserve and receive serious attention.

Analysis of Archest Public Analysis of Application Public Analysis of Analysts, Dr. Adams in the chair, a preliminary notice of a new process for the analysis of fats was brought forward by Dr. Muter, which, judging from the discussion that followed, is likely to cause a flutter in the breasts of the adulterators of such bodies. The process is claimed to consist in the isolation and estimation of the oleic and other fluid acids contained in fats, and the application of the iodine absorption method thereto, all in such a manner that the acid is never exposed to the action of heat or air, and that the absorption can be always performed on exact quantities and with the same excess of the reagent. It was stated that bogus lard and butter now undetectable could be unmasked by the method, and all interested in food analysis are awaiting the public appearance of the details in the journal of the Society. The process was stated to be the joint production of Dr. Muter and his chief assistant, Mr. De Koningh, and credit was given to Mr. Ecroyd (a senior medallist of the South London School of Pharmacy, Limited) for his assistance with the work so far as it has yet gone. Mr. Allen took the leading part in the discussion, and highly complimented the authors on having put their fingers on one of the exact points that organic chemists had been waiting for as to the analysis of fats. Mr. Hehner also read a paper on phytosterin in fats as a means of distinguishing between animal and vegetable fats.

Truth and Delusion.

This is the title of a characteristic paper which Dr. Lauder Brunton contributes to the "Universal Review" for January. There is little in the paper of direct pharmaceutical interest except perhaps this sentence, which is well worthy the attention of our pharmaceutical legislators at present: "Where we find two contradictory opinions held with equal tenacity by different people, it is always well to see whether both of them have not got hold of part of the truth, and neither of them got hold of the whole." In this belief Dr. Brunton proceeds to consider most of the striking beliefs and superstitions of the past and present. Medical superstitions come in for a good share of attention, but this subject was so well treated by Miss Florence Layard in a recent number of this journal, that our readers are familiar with most of what Dr. Brunton says. He explains the soundness of some of the superstitions. For example, in Sussex the most petted cat is turned out of the house if she sneezes, for should she stay in

the house and sneeze three times everybody within the walls will take cold. "Founded on fact" must be our verdict when we read Dr. Brunton's explanation of the Sussex fancy. "Sneezing," he says, "simply indicates that the eat is suffering from irritation in the nose, and although all forus of eold are not infectious, yet some forms are extremely so, and it is very likely that these will be communicated from the lower animals to man, as well as by one person to another.". The relations between the very old methods of surgical treatment and those now in vogue are well known. The balsams were powerful antiseptics and when used in moderation did well; but the old surgeons made the mistake of using too much of them, and ultimately took to applying the balsamic preparations to the swords which inflicted the wounds, and lo! the latter did better when they were thus left alone. A very interesting passage in the paper is the explanation of the omen that if a man stumbles when leaving the house in the morning he will be unfortunate in the business of the day. Why? Because the stumbling "shows that his nervous system is already in such bad working order that any enterprise in which he engages is not unlikely to prove a failure.

* *

Mr. Ernest Hart, on his recent visit to Paris, Salol for called at the private pathological laboratory of Cholera. Professor Cornil, and among those working in the laboratory he found M. Lowenthal, of Lausanne, who was studying the action of salol on the comma microbe of cholera, and who insisted on the toxic influence of this substance on cultivations of the eholera bacillus previously revivified, and rendered very toxic by the action of pancreas, pancreatic juice, or panereatin. When two tubes are taken, both containing a nutritive mixture to which pancreatic juice has been added, and also eholera bacillus cultivations, if to one be added a quantity of salol exceeding 10 centigrammes, the vegetation of the cholera bouillon was immediately arrested. According to the conclusions which he is disposed to draw from this research, salol may possibly become the preventive and curative agent of Asiatic cholera, but it must be tried in clinical praetiee before this conclusion ean be definite.

Gelsemin versus Gelsemine. The Continent complaining of pains, which Dr. Myrtle considered to be irregular gouty symptoms. He accordingly sent her the following prescription:—

The first pill, taken half an hour before the midday meal, produced exceedingly alarming symptoms-all, indeed, that might be expected as the result of a poisonous dose of gelsemine. The patient recovered after a severe trial to her system. Inquiry showed that he chemist dispensed for "gelsemin gr. 10" that amount of the hydrochlorate of gelsemine. Dr. gr. $\frac{1}{10}$ " that amount of the hydrochlorate of grand Myrtle points out that what he meant was *gelsemin*, an extract as described in the "Extra Pharmacopæia," the dose of which is $\frac{1}{2}$ to 2 grains, whereas the dose of gelsemine hydrochlorate is $\frac{1}{10}$ to $\frac{1}{10}$ grain. The ehemist, had he looked, continues the writer, would have found that only half a dose (!) of each ingredient was meant, and therefore had no excuse for supposing that the powerful alkaloid and not the milder extract was meant. He draws attention to this mistake and its nigh fatal consequences, because there ought to be no possibility of such an error. Between the administration of a safe, useful mediciue and a deadly poison we have only the terminal "a"—gelsemin, gr. $\frac{1}{2}$ to 2; gelsemina, gr. $\frac{1}{60}$ to 2. Should not this, Dr. Myrtle asks, be altered, and at onee? We must say that the dispenser is not alone to blame in this case; gelsemin is the "eelectic preparation," which is now represented officially by ext. gelsemii ale. What is the objection of prescribers to the official preparation? If they would use it and diseard the eclectic remedy there would be no possibility of such regrettable mistakes as the above occurring. Dispensers should take note of this circumstance,

keeping in mind that gelsemine is as powerful a poison as strychnine.

If we may believe the Drug Reporter, the New The New York drug market is losing ground in some important directions. The large jobbing business York Drug Market. which the city formerly enjoyed has gone to other distributing centres, and the retailers of the extreme South and West no longer resort to the metropolis for goods. The importation business has also been cut up, as every foreign manufacturer of any prominence has now his special agent in New York. This foreign agency feature has been largely instrumental in causing the marked change, and every year adds to its importance. Goods are sold on closer margins, and almost every house is seeking to gain eapital by pushing specialities under a trade-mark which is expected to become valuable in the course of time. Since 1870 a large number of wholesale drug houses have ceased to exist, either by voluntary liquidation or through deaths, failures, and fires. The heavy speculative ventures of previous years, when corners in spiees, shellac, opium, and other drugs were of annual occurrence, and operators in New York astonished the world by their bold actions, have departed with the death of several conspicuous figures.

A Birmingham correspondent complains that "Minor" a Minor candidate at a recent examination in Chemistry. Edinburgh had lead iodide given him to test, and on asking for "some NO2CO3 and funnel and filter-paper in order to proceed, as he had been taught, to find the acid radicle," was informed by the examiner that such elaborate methods were not required. The eandidate states that he had, therefore, to do his best without the apparatus. There is some mistake here. It is within our knowledge that funnels, filtering-paper, and all other apparatus and articles required for a complete qualitative analysis are placed on the laboratory bench or table, and if a candidate require them (which is rarely the case) he has merely to take them or ask for them. It also strikes us that if a candidate were to treat insoluble simple salts in the examination room by the method indicated, the examiner would have reasonable grounds for objection, because he would have little opportunity of judging during the 30 or 40 minutes allowed to each candidate what his qualifications are. Minor candidates are not required to analyse the salts given, merely to test them. In the present case, for example, the candidate, knowing that the substance he was dealing with was lead iodide-there is no other medicinal chemical like it-and with his knowledge of iodides generally, eould, with a little manganie oxide, sulphuric acid, and a test-tube, have demonstrated in a few seconds the presence of combined iodine in the substance. It must have taken him as many minutes to perform the operation, for which he required a funnel, &c., Candidates are too prone to take chemicals "through the chart," while their own intelligence and knowledge of chemistry acquired by reading are allowed to lie dormant.

European planters in Ceylon are paying great Pepper attention just now to the raising of pepper, Growing in and its success as a new culture has been Ceylon. practically assured in the island. Two planters, Messrs. Martin, of Ambalangoda, and Blackett. of Dolosbage, says the Ceylon Observer, will send their first shipments to market this season. About one hundred and fifty years ago, under the Dutch rule, pepper planting was an important industry in Ceylon; but it would seem that the culture expired soon after the British seized the island. Iu 1650 it was reported that pepper grown in Ceylon was sold at a higher price than that produced elsewhere. Governor van Imhoff, in 1739, considered pepper "a far more important article" than cardamoms, and in that year the exports of pepper from Ceylon were 465,000 lbs., the greater portion from the Kandyan provinces, where the harvest began in December and ended in April. In 1813 the export of pepper was $190\frac{2}{3}$ candies, valued at about 12,000l., and the average for seven years was then 200 eandies, or about 1,000 cwt. The site of the former Dutch pepper gardens at Madampe has long been under cocoanuts. Bennett in 1843 declared that the district of Kalutara alone ought to produce more pepper than the whole of the island did.

THE ALCOHOL VALUE OF THE B. P. LINIMENTS. BY F. W. FLETCHER, F.C.S.

It has been suggested to me that the Tineture Tables printed in this journal, January 26, 1889, pages 109-110, might be usefully supplemented by a statement of the proportion of proof spirit contained in the official alcoholic liniments. The following determinations are the result of a large number of observations both upon experimental and bulk quantities:—

LINIMENTUM ACONITI.—Average specific gravity at 15.5° C., ·890. Fifty cubic centimetres are diluted with distilled water to 250 c.e. This causes a separation of the greater part of the camphor. If the liquid does not filter readily, or brilliantly, it should be treated with a little calcium chloride and sodium phosphate, as described in method B., page 110. One hundred e.c. are then distilled, the distillate being made to measure exactly 100 c.c. at 15.5° C. Its specific gravity is then determined, and the percentage of proof spirit corresponding thereto ascertained by reference to an alcohol table. The result multiplied by 5 is the percentage by volume of proof spirit in the original liniment. It should approximate to 130.8 per cent.

LINIMENTUM BELLADONN.E.—Average specific gravity a^t. 15·5° C., ·880. This is treated in precisely the same manner. The percentage of proof spirit in the standard liniment is about 135·7 per cent. by volume.

LINIMENTUM CAMPHORÆ COMP.—Specific gravity at 15.5° C., $\cdot 871$. The volume of product yielded by the official formula is exactly 180 fl. oz., from 120 fl. oz. of rectified spirit. One hundred fl. oz. will therefore contain $\left(\frac{120 \times 100}{180}\right)$ 66.6 per cent. of rectified spirit, or $\left(\frac{156 \times 66.6}{100}\right)$ 103.9 per cent. of proof spirit.

LINIMENTUM CROTONIS.—Specific gravity at 15.5° C., 892. The product measures 16 fl. oz., containing 7 fl. oz. rectified spirit, equivalent to 43.8 per cent., or $\left(\frac{156 \times 43.8}{100} = \right)$ 68.3 per cent. of *proof spirit*.

LINIMENTUM IODI.—Specific gravity at 15.5° C., .972 The product from 40 fl. oz. rectified spirit measures 43.5 oz., and therefore contains 91.9 per cent. of rectified spirit, or $\left(\frac{156 \times 91.9}{100}\right)$ = 143.4 per cent. of *proof spirit*.

LINIMENTUM OPH.—Specific gravity at 15.5° C., '921. Tinet. opii (see table 1, page 109) contains 95.8 per cent. proof spirit, and lin. saponis (see below) 108.5 per cent. proof spirit. This liniment will therefore correspond to $\left(\frac{95.8+108.5}{2}\right)$ 102.2 per cent. proof spirit.

LINIMENTUM SAPONIS.—Specific gravity at 15.5° C., 897. The volume of product from 128 fl. oz. rectified spirit is 184 fl. oz., or $\begin{pmatrix} 128 \times 100 \\ 184 \end{pmatrix}$ 69.6 per cent. of rectified spirit, or $\begin{pmatrix} 156 \times 69.6 \\ 100 \end{pmatrix}$ 108.5 per cent. of proof spirit.

LINIMENTUM SINAPIS COMP.—Specific gravity at 15.5° C., •910. Product measures 55 fl. oz., containing 44 fl. oz. rectified spirit, or $\binom{44 \times 190}{55} = \binom{44 \times 190}{55} = \binom{4$

It is very difficult to make an exact determination of the percentage of alcohol in lin. camph. eo. and lin. saponis. The proportion of camphor in each being large, it becomes necessary to dilute either liniment to, at least, ten times its volume, and then subject it to special treatment, in order to separate the stearoptene. The alcoholic distillate is, consequently, so attenuated that any error in manipulation is proportionately multiplied in the subsequent calculation.

In the case of lin, saponis the difficulty is further increased by the presence of soap, which must be first decomposed by an acid, otherwise the excessive frothing renders distillation impossible.

The following methods have been found to give results most nearly in accordance with the truth:—

LINIMENTUM SAPONIS.—Twenty-five cubic centimetres of the liniment are diluted with distilled water to 250 c.e. One hundred enbic centimetres of the diluted liniment are then treated with a slight excess of sulphuric acid. This causes a separation of the greater part of the camphor, as well as of the oleic acid. The mixture is then filtered through a wetted filter, the latter being well washed in order to remove any adhering traces of alcohol. The filtrate and washings are then distilled, the distillate made up to 100 c.c., and its sp. gr. taken very accurately by the balance. The proportion of proof spirit indicated by the sp. gr. multiplied by 10 will represent approximately the percentage by volume of proof spirit in the original liniment.

LINIMENTUM CAMPHORÆ COMP.—Twenty-five cubic centimetres are diluted to 250 c.c., and 100 c.c. of the diluted liniment cautiously neutralised with sulphuric acid. The mixture is then filtered, and distilled as above described. The percentage of proof spirit, as deduced from the specific gravity of the distillate, should approximate to 104 per cent. by volume.

CASCARA SAGRADA.

THE following is a note which an importing house has received from their American friends along with samples of summer and winter dried bark:—

"There is a great deal of discussion regarding the superiority of summer and winter dried bark. Although in appearance the summer-dried is undoubtedly superior, those who claim it to be the better one state that all bark gathered in the fall is destitute of sap, as the sap is withdrawn from the bark and trunk and concentrated in the roots. This is, of course, not so, as it is improbable that the virtue of the bark is held in the sap, and, if it were, it is not likely that all, or even the preponderating part of the sap, is withdrawn from the bark and trunk during the fall. Again, it is quite certain that very little is known regarding the constituents of the cascara, or what its virtues are due to, hence theorising as above is dangerous. Those who claim superiority for the winter-dried bark give as a reason that during the spring the therapeutic virtues are in a very exhausted condition, or, at least, held in abeyance in order to sustain or promote the growth of the tree. This argument is no better than those offered above in favour of the other side of the question.

"The only true test of the caseara bark is its therapeutic effect, as all other tests are simply guess-work after all. We have made the following test with the fluid extract of the winter-dried bark, making the fluid extract after the method of the British Pharmacopæia, and it proved very effective on nearly twelve persons, four of whom were constipated, the other eight being in a nearly normal condition. The result on one severely-constipated person was very favourable, producing three movements. Of the other three, two were affected, while one was not. The remaining eight, who were in a nearly normal state, all, with one exception, experienced pronounced effects of the drug. We are thus satisfied from the result of our practical experiments that the therapeutic value of the winter-dried bark is entirely satisfactory."

THE Rev. D. S. MaeEwan, D.D., was paster of a leading Baptist Church in Kansas City, but he forsook that calling for pharmacy, starting the "Palace Drug Store" in the city. This he has run for two years, and his creditors are now wondering when they are to get the \$10,000 which the Rev. MacEwan owes them.

Trade Report.

Notice to Re! if Buyers:—It should be remembered that the quotations in this section are invariably the lowest net cash prices actually paid for large quantities in bulk. In many cases allowances have to be added before ordinary prices can be ascertained. Frequently goods must be picked and sorted to suit the demands of the retail trade, causing much labour and the accumulation of rejections, not all of which are suitable, even for manufacturing purposes.

It should also be recollected that for many articles the range of quality is very wide.

42 CANNON STREET, E.C., February 21.

WE have to report another very quiet week in the drug and chemical trades; business, in fact, would have been almost devoid of any very important features, had it not been for the fresh decline which has taken place in quinine, and the commencement of what looks like a debâcle in the shellae market. The drug sales held to-day were very heavy, and dragged along in dreary dulness, save for an occasional flash of interest when articles such as ipecacuanha or cardamous were reached. The former drug has experieuced a heavy decline, but fine cardamoms again brought very full prices. Jalap and vanilla are also dearer, while rhubarb, Loxa bark, senna, cascara sagrada, and beeswax fully maintain their position. The reports of the cod-fishing in Norway are somewhat less favourable. Essential oils of sassafias and pennyroyal are higher in America and menthol has risen in value. On the other hand the recent quotation for camphor does not appear obtainable, ergot of rye shows weakness, Canada and Tolu balsams are easier, as also is wintergreen oil. Gum Benjamin sold, on the whole, at a reduction, and some grades of musk are perceptibly cheaper in price. In the chemical markets sulphate of copper is again stronger, morphia and quieksilver are unchanged, but quinine has further declined. In drysalteries the principal feature is the not inconsiderable depreciation of shellac. Bengat turmeric, rape oil, and palm oil are also lower. Galls, gambier, and cutch show no appreciable change in value, while for plumbago and quillaya bark higher prices are demanded.

AT Wednesday's spice sales a resolution was proposed by Mr. W. W. Green (Messrs. Brookes & Green), and seconded by Mr. D. Harvest (Messrs. W. & D. Harvest), to the effect that in Inture, when parcels of Penang white pepper are offered for sale which have not been weighed within three months previous, the buyer will be entitled to re-weight. Some discussion arose, and it was ultimately agreed to consider the matter further at the spice sales on February 27.

A FIRE which, but for the prompt and energetic action of the fire-brigade, might have had very serious consequences, occurred on Saturday last in the warehouse of Mr. Julius Grossmann, of Hamburg. The fire originated in the cellar of the premises through the accidental ignition of a box of amorphous phosphorus which had been opened by the warehouseman. Some damage was occasioned to a parcel of codiver and train oils, but the fire was got under before it could spread to the adjoining departments.

Proposed Arbitration in Shellac Disputes.—At the drysaltery auctions on Tuesday a boisterons tone predominated, and the interruptions with which some of the selling brokers were greeted upon the slightest provocation sometimes verged upon the disorderly. When Mr. Figgis (Lewis & Peat) ascended the rostrum he announced that he had something to say with regard to the system of arbitrations in shellac, and after some preliminary remarks. in which he expressed the confident hope that the upward movement of shellac would make further progress (an expression which was received with irreverent laughter in some quarters), he made a lengthy statement, of which the following is the gist: The recent development of the business in shellac for delivery on the basis of "TN second orange" has caused a considerable increase in the disputes

about quality, and consequently in the appeals to arbitration Unfortunately some of the parties very often carelessly delay to appoint an arbitrator, or the arbitrators, if appointed, retard their decision for several days, and as the goods cannot be taken up until the award has been declared, friction and annoyance are the order of the day. To obviate such difficulties, Mr. Figgis proposed that the tradeshould adopt some scheme whereby an expert who has the general confidence should be appointed, and a definite sample agreed upon as representing the standard of the lac by which the sales for delivery or shipment are made, that disputes should in all cases be referred to the arbitrator in question, and judged by the standard sample inhis keeping, and that the award then given should be final and binding upon all parties. After some desultory conversation it was agreed to further discuss the matter at a conference of shellac brokers, which will, we understand, be held early next week.

The growth of German exports to China and Japan in recent years is shown in the following table, giving the aggregate weight of merchandise sent to each of these countries:—

	To China.	To Japan.
	Kilos.	Kilos.
1880	6,500,000	1.610,000
1882	4,570,000	1.680,000
1824	10,540,000	5,760,000
1885	16,590,000	16,340,000
1837	19,850,000	15,810,000

These figures do not include the shipments from the formerly free ports of Hamburg and Bremen.

RUSSIAN CUSTOMS DUTIES.—It is asserted on reliable authority that a general revision of the Russian customs tariff will take place before this spring, and that the duties on many articles will again be considerably raised.

ACIDS.—Citric. spot. 1s. $5 \nmid d$. per lb. is asked, and there are buyers at 1s. 5d. per lb. Heavy quantities of concentrated juice are arriving on the Messina market and have the effect of keeping down the price there. Oxalic still maintained at $4 \nmid d$. per lb. Tartaric slow at 1s. $3 \nmid d$. to 1s. 4d. per lb., according to brand.

ACONITE ROOT.—A consignment of 23 cases Japanese root was advertised for sale, but had not been landed in time-for sampling.

ALOES.—At to day's auctions a fair average assortment of aloes was offered for sale, and a good proportion disposed of without any noticeable alteration in values. Cape aloes, notwithstanding the fact that 269 packages arrived to day from Algoa Bay, brought steady prices, good bright hard selling at 19s. to 20s.; more or less gritty and overheated at 17s. to 18s. 6d.; and dull earthy at 14s. to 16s. 6d. per ewt. A lot of livery South African aloes was bought in. For Curaçaes the highest price paid to day was 51s, for fair brown liver; 42s. for dark liver; 30s. to 33s. for good bright Capey and down to 12s. for frothy and coarse qualities. Broken gourds and wood sold at from 4s. to 10s. per cwt. Fairly good Socotrines in kegs sold at 5l. 17s. 6d. per cwt., subject to approval.

AMBERGRIS.—Only two tins were offered to-day; one, of yellowish colour and good flavour, is held at 5*l*. 5*s*. per oz., which seems rather dear. The second one, partly fair flavoured white, partly stony New Zealand, was sold at 35*s*. per oz.

AMMONIA SALTS.—Carbonate and Salammoniae are firm at the last quotations. Sulphate has declined to 12l. 2s. 6d. to 12l. 5s. London and Beckton terms; Hull, 12l. 2s. 6d.; Leith, 12l. 1s. 3d.

Annatto.—Fair Brazilian Roll annatto is selling privately, we hear, at 9d. per 1b. Ceylon Seeds of good appearance brought 2^3_1d , per 1b. in sale to-day.

ARECA NUTS. An offer of 14s, per ewt, was refused for a lot in sale to-day.

ARSENIC firm at 12s, 6d, to 12s, 9d, per ewt, for best white powder, landed,

BALSAMS.—No Copaiba balsam was offered at to-day's sales, and we believe that really fine quality would be difficult to procure on the spot. Canada balsam has further declined in America, and is quoted at 1s. $6\frac{1}{2}d$. to 1s. 8d. per lb. c.i.f. for good bright quality. Peru is a very dull market, both here and in America, but holders still professed, at to-day's auctions, to hold firmly at 4s. 3d. per lb. Tolu dull and lower, arrivals being sent freely from the producing country to the principal centres. Good quality may be had at 1s. $4\frac{1}{3}d$. per lb.

BLEACHING-POWDER very slow of sale at 81, 10s., ex warehouse here, and 71, on the Tyne.

BORAN.—The demand has eased off, and prices range from 28s. 6d. to 30s. per cwt. for refined, according to brand and seller.

Buchu neglected. Long leaves, rather mixed with stalks were bought in to-day at from 5d. to 6d. per lb.

CALUMBA.—At to-day's auctions 242 bags were offered, and 85 sold at 12s, to 13s, per ewt, for small to bold grey-coloured and rather wormy sorts.

CAMPHOR (CRUDE).—A consignment of 50 thbs good Japan, imported viâ Hamburg, was offered at to-day's auctions, and up to 88s. per cwt. was bid for it, but owners declined to sell. China mail reports mention a rather weaker market in Hong-Kong, where arrivals from Japan are accumulating somewhat.

Cantharides.—Russian flies quiet at unaltered rates. For bold Chinese 1s. 2d. per lb. was refused to-day.

CARDAMOMS.—A rather heavy supply of 263 packages was offered at to-day's auctions. The finer qualities were well represented, but a large quantity of the highly-esteemed Mangalore variety did not reach the hammer at all, the whole being withdrawn. A pretty good competition prevailed, but most of the brokers were not at all eager to sell, and altogether only 101 packages were disposed of at very full rates to an occasional slight advance for the better grades. The prices realised ran as follows:—Mysore, fine bold long well bleached, 3s. 4d. to 3s. 5d.; good heavy pale, 3s. 3d., rising to 3s. 6d.; bold heavy yellow, 3s. 3d.; medium-sized pale round, 2s. 9d. to 2s. 10d; small, 2s. 8d.; medium long yellow, 2s. 6d; small ditto, 1s. 9d. to 2s.; small pale round, 1s. 9d.; medium to bold brown mixed and split. 1s. 9d. per lb. Ceylon-Malabar. good round medium grey. 2s. 4d.; fair small to medium yellow, 1s. 4d. to 1s. 10d. Wild Ceylon, good heavy bold, 1s. 10d. Aleppy, brown, shelly, and badly clipped, 10d., seeds, 1s. 8d. to 1s. 10d. per lb. The following quantities were exported from Ceylon in the periods between Oetober 1 and January 24:—1888-9, 91,810 lbs.; 1887-8, 123,662 lbs.; 1886-7, 103,056 lbs.

CASCARA SAGRADA.—Firmly held, some dealers quoting 2s. 3d. as the lowest figure, but we have not heard that 2s. has been paid yet. With regard to the supplies for next season, American advices deny that the high prices will prove an incentive to the gathering of a large crop of bark this year. The bark is now gathered by ranchers from their small ranches scattered along the Pacific coast, and so great has been the demand that all the more accessible places have been entirely denuded, and the trees have become extinct in many districts where formerly they were abundant. supplies will therefore have to come from remote localities, making the marketing a matter of greater time and uncertainty. As the bark is very susceptible to the effects of moisture, the curing cannot be commenced until the rainy season (which lasts sometimes to the beginning of May) is over, so that it is hardly possible that any new bark can reach San Francisco before the beginning of July. During month of January, it is said, fully 5,000 lbs. have been exported from New York, leaving in stock about 3,000 lbs. of true thin bark, part of which is held for very high figures, as it cannot be replaced before July or August. Of the so-called spurious bark, and bark cut off the trees with draw-knives, all of which was sold to New York dealers as genuine Californian bark, but on arrival was rejected as worthless, there are about 5,000 lbs. in store, and 5,000 lbs. were shipped to Europe. The thick Oregon cascara is sometimes mixed with other barks, and buyers are cautioned to be on their guard against this. The stock of genuine

thick bark left in New York is about 4,000 lbs.; it will be readily absorbed by the home demand.

CASCARILLA.—For a small lot of fairly good dusty and woody mixed quill 33s. 6d. per ewt, was refused to-day.

CASTORUM. -- On February 27, 782 lbs.will be sold by auction.

CAYENNE PEPPER.—A lot of rather brown-coloured pepper sold, subject to approval, at 1s. per lb., but for fine fiery red pepper 1s. 9d. per lb. is asked.

CINCHONA.—Very high prices were paid to-day for some of the better grades of South American druggists' barks:—Loxa, good bright silvery to thin brown quill, 2s. 2d. to 1s. 7d.; broken and damaged, 10½d. to 1s. 6d. Iluanoco, brown to fair, 9d. to 1s. 4d. per lb. Guayaquil, 7d. to 1s. 4d. per lb. Fifty bales good bright Lima were bought in at 4d. per lb. Of Soft Colombian and Pitayo barks a parcel of 51 serons, mostly imported in 1873, sold at ¼d. to ¾d. per lb., the whole lot (about 7,600 lbs.) realising less than 16l. Calisaya, good bold flat orange, sold at 1s. 4d.; damages at 1s. to 1s. 2d. per lb.; spurious Calisaya quill, 2½d. to 4d. per lb. For next Tuesday's auctions 2,149 packages are at present declared, composed of 700 Ceylon, 711 East Indian, 475 Java, and 263 South American bark. The arrivals this week have been rather heavy, both from British India and from Ceylon. The shipments of bark from Java during the second half of the year have been:—

_		1888	1887	1886	1885	
Private plant Government plant Total		••	1bs. 1,854,888 335,433 2,190,321	1bs. 1,635,729 381,477 2,017,206	1bs. 282,105 359,591 641,696	1bs. 429,879 253,062 682,941

The shipments from Ceylon between October 1 and Jan. 24 have been:—1888-9, 3,846,843 lbs.; 1887-8, 2,990,041 lbs.; 1886-7, 4,999,055 lbs.

CIVET.—In little demand. Rather weak-flavoured civet was bought in at 9s. 6d. per oz. nominally to-day.

COCAINE.—German bulk unaltered at last week's quotations. A 31-oz. tin of erude South American cocaine was offered to-day, but met no offers at 12s. per oz.

Coca Leaves.—True Huanoeo leaves appear to be wanting in South America, and are scarce in New York, 1s. 1d. per lb. being asked for the best. The light green thin Truxillo leaves, on the other hand, are in very large supply, and may be had cheaply. At to-day's drug sales only a few odd lots were shown, one bale of very common quality selling at $\frac{1}{2}d$. per lb.

COLOCYNTH.—Good pale but rather seedy Turkey apples are held at 1s. 5d. per lb.; fifteen cases sea-damaged sold without reserve at good prices, from 11d. to 1s. $1\frac{1}{2}d$. per lb. Of 8 packages Cyprus, only one lot of rather seedy pulp sold at 1s. per lb.; for seedy mixed pale apple 1s. 2d. per lb. was refused.

CONDURANGO.—Of 203 bales offered for sale to-day only 30 were disposed of, pale but rather woody at 6d., damages $5\frac{1}{2}d$. to $5\frac{3}{4}d$, per lb. For another lot 7d, is asked, and a third was bought in at 1s. per lb. nominally.

COPPER SULPHATE again dearer, at 281. to 281. 10s. for spot supply.

Coto Bark.—Arrivals have come to hand rather freely lately, and in New York 1s. 6d. per lb. is asked. At to-day's auctions 8 serons at 150 lbs. each, damaged bark, and said to be genuine para-coto were bought in at 4s. 6d. per lb.

COWHAGE. Fairly good quality, tolerably free from sand, is held at 1s. 6d. per oz.

CREAM OF TARTAR remains very dull at 98s, per cwt. for first white crystals,

CROTON SEED.—Five robbins rather dark seed from Bombay sold at 11s. 6d. per cwt.

CUTCH.— Sales have been made at steady rates this week, viz. 23s. for RS in tablets, and 30s. for good new double Eagle.

CUTTLEFISH.—Ten cases good bold and fairly white bone sold cheaply at $5\frac{1}{2}d$. per lb. Sixteen cases very common damaged bone from Ceylon are held at $1\frac{1}{2}d$, per lb., and it is said that that price is being privately paid for the quality.

ERGOT OF RYE.—A quantity of 51 packages, mostly Spanish ergot, was offered for sale to-day. Thirteen packages *Spanish* sold cheaply at 1s. 6d. per lb. for fine new bold, sound, and 1s. 3d. per lb. for good sifted; small sound *Russian* brought 10⁴₄d. per lb.

EUPHORBIA PILULIFERA.—A lot of 90 lbs. good flowery herb from Bombay was bought in at 3s. 6d. per lb., which looks like a stiffening in the price.

FENUGREEK SEED.—Good Morocco seed is firmer, 8s. 6d. being now the lowest price. An offer of 3d. per cwt. less was declined to-day.

Galls.—China galls are held at 67s. 6d. per cwt. on the spot for good quality. A cablegram from Shanghai reports that the erop of Kiang-se galls is spoilt, and that no supplies are expected, nor is there any stock of this variety. Turkey galls are steady, with sales of finest blue up to 60s. per cwt. At auction to-day a large supply was bought in.

GAMBIER.—Business has been rather quieter this week, but prices keep steady. Sales of *block* are reported at 26s. 9d. for January shipment.

Gamboge.—The price keeps very steady. At auction only 6 cases were offered, of which 4 sold, fair blocky pipe, partly dull in fracture at 11l. 5s. to 11l. 10s. per cwt. For good run pipe, bright orange fracture, 12l. 2s. 6d. was bid, but the owner wants 12l. 10s. per cwt.

GLYCERINE remains firm but unaltered up to 72s, per cwt. for double distilled s.g. 1,260 from some of the makers.

GUM ARABIC.—Fine gums are very high in price, but the commoner East Indian varieties are in over supply. At Liverpool good to fine Brazilian is selling at 55s. to 72s. 6d. per ewt. Good Getzirah gum is held at 5l. per ewt. Ordinary dark red and blocky East Indian Amrad sold to-day at 32s. to 34s. per cwt. Rather small and drossy white Mogadore was bought in at 9l. 10s. per cwt. nominally. Good clean palish but dusty Turkey sorts are held at 19l., and it is said that that price is being paid privately.

GUM ASAFŒTIDA.--Of 175 cases offered to day 155 were disposed of at 28s, to 35s, per ewt, for stony block to good pinky and red.

GUM BENJAMIN.—Arrivals still continue to come iu, our stock having been increased to-day by 169 cases from Singapore. At auction 106 cases, mostly Sumatra gum, were offered and sold, partly at a decline of about 10s. on medium qualities, but fine lots realised full rates. Siam—Good bright small to bold block brought 15l.; small bright blocky almondy grain, 11l. 7s. 6d. per cwt. Sumatra—Fine bold pale almondy seconds, good flavour, sold at 9l. 15s. to 9l. 17s. 6d.; good almondy, slightly brown bordered seconds, 8l. 12s. 6d.; grey seconds, one-third false packed, 8l. 7s. 6d.; rather dull almondy centres but false packed corners, 7l. 10s.; ordinary to fair thirds, 90s. to 97s. 6d. per cwt. Penang—Good yellow almondy centres, 7l. Palembang—Good almondy in small boxes, 70s. per cwt.

GUM ELEMI.—The price keeps fairly steady. To day 45 cases fair to good white *Manila* were shown, and for the best of these 39s. per ewt. was refused.

GUM GUAIACUM.—Two boxes fair to very earthy and woody block were bought in at 9d. per lb., an offer of $6\frac{1}{2}d$. per lb. being declined.

Gum Kino steady. The price of good bright Calient gum is 28s, per cwt., and an offer of 6d, per cwt. less was refused.

GUM MYRRH is in a very neglected state, 56 packages being all bought in to-day; sorts at 90s. to 95s., and good selected at 7l. 5s. per ewt.; very good coarse siftings sold at 77s. per ewt.

Honey.—At auction a large quantity of Californian honey, of very doubtful taste and appearance, was shown, and bought in at 30s. per cwt. Oue cask good liquid brown West Indian sold at 37s., and 7 kegs (out of a parcel of 21) good palish hard Chilian at 42s. per cwt. The arrivals from the States still continue to be fairly plentiful.

INSECT FLOWERS are without material alteration since last week.

IODINE steady, on the basis of 9d. per oz. for crude. *Iodides* maltered. We have heard some rumours of a coming change in the control of the Chilian iodine production, but as yet these reports are extremely shadowy and unsubstantiated.

IPECACUANHA. - Part of the recent heavy arrivals was offered for sale to-day, and there was a good deal of curiosity regarding the result of this auction. The broker who first offered his lots, after a good deal of fencing and feigning to withdraw the whole of his 43 packages, sold 10 of them at 7s. 10d. for rather ordinary picked, 7s. 6d. for good partly wiry sound natural, and from 7s. 2d. to 7s. 4d. per 1b. for more or less damaged and mouldy root. The second broker, who had 10 serons, sold 7 at very slightly lower rates than his predecessor, the lowest price being 7s. per 1b. for mouldy root. Compared with the last auctions this shows a fall of fully 1s. 6d. per 1b., and it is quite possible that a further decline may occur shortly.

JALAP.—Again somewhat dearer. For fifteen bales partly small, partly very bold, sound heavy Vera Cruz. $7\frac{1}{2}d$. per lb. was paid to-day In New York prices have advanced to from 8d. to $8\frac{1}{2}d$, per lb. The new crop, which is due early in March, is expected to be a very small one.

JUNIPER BERRIES.—Twelve bags good Italian sold to-day at 12s. 6d. per ewt.

MATICO.—The recent arrival was offered for sale to-day. It consisted mostly of dark leaves. One of the best lots, fairly greenish mixed, brought 9d. per lb., others from 4d. to 6d. per lb.

MERCURIALS.—There is no alteration in the quotation of quicksilver preparations on the basis of 3s. 3d. per lb. for Calomel.

MORPHIA.—There is no alteration in the price. The makers are reported to be very much over-sold and delivering slowly, and this perhaps accounts for the circumstance that not so many second-hand parcels are being offered as might have been expected.

MUSK.—To-day's public sales included a fair number of *Tonquin* pods, or which 8 caddies of the first pile, medium to bold pods, somewhat damp, with top and underskin, sold at 84s. 6d. for the first, but for the rest only 82s. 6d. per oz. could be obtained, which is a reduction of about 3s. per oz. in value. For 5 caddies very fine small to bold, well trimmed, good yielding pods thin blue skin and underskin, 93s. was refused, and for 3 caddies good old-fashioned pods 87s. 6d. was bid without leading to business, showing these grades to be firmly held. Third pile, good shaped but sophisticated pods sold at 40s. to 45s. 6d., good Nepaul grain at 50s., ordinary quality and rubbish at 13s. to 1s. 6d. per oz.; empty Tonquin skins, 6s.; Carbadine ditto, 3s. 9d.; trimmings, 1s. 4d. to 1s. 5d. per oz. Two tins of "Nepaul musk," large flat pods with white hair on one side and an oily skin at the other, filled with a hard grey chalky substance, were sold to an exporter, one at 5d., one at 6d. per oz.

Nux Vomica.—A parcel of 275 packets from Cochin, pale silky but damaged seeds, was bought in at 9s. per cwt.; for 60 bags from Calcutta 8s. per cwt. is asked.

OIL (CASTOR)—Italian firmly held at $4\frac{3}{8}d$, to $4\frac{1}{9}d$, per lb.

OIL (COD-LIVER).—The fishing does not appear to have yielded a very satisfactory result as regards quantity so far, the yield of medicinal oil np to February 16 being returned as 280 hectolitres, against 2,270 heetolitres at the same period last year.

Oils (Essential).—As regards American oils. Peppermint continues dull at 14s. 9d. per lb. nominally for H.G.II. There is a scarcity in Pennyroyal, of which the price has advanced in America to 3s. 6d. per lb. Sassafras oil. owing to the approaching consuming season, is also reported better from New York, and quoted at 2s. per lb. Wintergreen dull and easier at 8s. per lb. Japanese Menthol crystals have been advanced to 6s. 3d. per lb. for Cocking's, and 5s. 3d. for other brands. For Lewongrass oil 12d. per oz. is solicited. Cassia unaltered. Of Star anise several lots were offered to-day, but they are held above value. Cablegrams from Hong Kong report a weaker tendency, and quote equal to 6s. 5d. per lb., e.i.f. terms.

OILS (VARIOUS).—Cocoanut very dull of sale on the spot, and demand nominal, fine Ceylon, 26t. 10s. to 27t.; Cochin, 28t. to 29t. 10s. Cottonseed, crude, 23t.; refined, 25t. Linseed, 18t. 10s. to 18t. 15s. Olive slow and dull of sale; Mogadore, nominally, 33t.; Messina, 35t. to 35t. 10s.; Spanish, 36t. nominally spot, but lower for shipment. Palm oil lower and dull, fine Lagos, 26t. Rape oil easier at 30t. for refined, and 28t. 10s. for brown on the spot. Petroleum American spot, 6td. to 6td.; Russian, 5td. to 5td. Turpentine American, 35s. 3d. to 35s. 6d. per cwt.

Opium.—There is no alteration in process, and business is virtually at a standstill. Good current *Druggists'* opium is held at 9s. 6d.; seconds at 8s. 6d. to 9s. per lb. In soft shipping no business has transpired. *Persian* nominally, 13s.

ORANGE PEEL.—Ordinary thin cut Malta still in very heavy supply, and difficult of sale. Good quality sold at 11d, to 1s, per lb. to-day; common to black at $4\frac{1}{3}d$, to $1\frac{3}{4}d$, per lb.; good new Seville ringlets 11d, to 1s, per lb.

ORRIS.—For very fine well-trimmed bold white Florence root 55s, per cwt. is asked.

PLUMBAGO.—Prices have been advanced.

QUICKSILVER.—First hands remain at 81. 10s.; seconds have fluctuated and close at 71. 17s. to 71. 17s. 6d. It is announced that several English syndicates have applied to the Servian Government for permission to work the quick-silver mines which are situated in Servia.

QUILLAYA.—The price is reported to have been raised from 11% to 12% 10% per ton.

QUININE.—A good deal of business is reported this week at declining prices. $B \leq S$ bulk has sold for delivery up to July at 1s. $2\frac{1}{2}d$. The Aucrbach agents offer at the same price, while the Brunswick agent has accepted 1s. 2d. per oz. for Angust delivery. At to-day's auctions the lowest point on record was reached by the sale of 2,000 oz. Brunswick quinine at 1s. $1\frac{3}{4}d$., and 15,000 oz. Aucrbach in 100-oz. tins at 1s. 1d. per oz. Shilling quinine now seems well in sight.

Rhubarb.—At to-day's auctions 130 cases were offered, mostly wormy Shensi root, and about 50 packages sold at very full prices, if not actually dearer. The recent Chinese steamers have brought us no further supplies, and privately a very good demand has existed, several parcels having been taken out of the market for shipment to the States and elsewhere. High-dried root, flat, small, fair coat, slightly wormy, sold at 10d. to 11d., and more ordinary at 9d. per lb. Shensi, round medium to bold, fine pinky fracture, orange coat, good appearance, 2s. 8d.; ditto flat, 2s. 6d.; medium flat, fair coat, even pinky fracture, 1s. 10d.; medium to bold rough coat, half dark fracture, wormy, 1s. 3d.; medium to small wormy, dull, horny coat. grey fracture, round, 10d. to 1s.; flat, 8d.; Canton, bold root, fair coat, dullish fracture, slightly wormy, 1s. 7d. per lb.

SALEP scarce. Twelve packages Syrian are held at 121, to 151, per cwt.

SARSAPARILLA.—A rather heavy supply, comprising about 140 packages, was offered to-day, and sold partly at unchanged values; Jamaica. sound grey, 1s. 7d.; coarse, 1s. 4d.; damages. 1s. 5d. to 1s. 6d.; Mexican. $4\frac{3}{4}d.$; chumpy damaged Guayaquil, 6d. to 7d. per lb.: sound, $8\frac{1}{2}d.$ per lb. refused; Lima Jamaica, $7\frac{1}{2}d.$; Honduras, 11d. per lb. From the States a large speculative movement in Honduras sarsaparilla is reported, and the bulk of the stock has thereby been absorbed. The "c.i.f." price is now from 1s. 1d. to 1s. 3d. per lb., according to brand.

SASSAFRAS.—A very strong demand for root bark is reported from America, the price there having advanced to from 4d, to 4\darksquare. Three tons chips offered at to-day's auctions are limited at 19s, per cwt.

SENEGA.—White senega root, the produce of *Polygala Boykinii*, has recently appeared in the New York markets, and has been sold as true senega. This is a sophistication which has not previously been noticed. At to-day's auctions 2s. 6d. to 2s. 7d. per lb. was asked for good bright root.

SENNA.—Alexandrian leaves are quoted at 1s. 7d. per lb. for fair bold green, and 7d. to 9d. for broken. Two hales small broken leaves sold at 6d. per lb. to-day. Of *Tinevelly* leaves 277 packages were offered and about one-half of this

was sold at 4d, to $4\frac{3}{4}d$, per lh. for medium green, 2d, to 3d, for small greenish to very yellow, and from $1\frac{3}{4}d$, to $\frac{1}{4}d$, per lb. for low dark to rotten leaves, of which the bulk consisted. Another 110 bales arrived from Bombay this week.

SIELLAC.—Last week closed dull, with sales at occasionally lower rates, and on Monday, upon the publication of the Calcutta statistics relating to the shipments for the first-half of the month, which were unfavourable, the exports having been 4,700 cwt. to this country, and 4,000 cwt. to the States, a pronounced decline occurred, which was aided by the announcement that the public sales for the week would be very heavy. Under these circumstances second orange declined between 4s. and 5s. per cwt. The weekly auctions on Tuesday were comprised of

The demand on the whole was rather better than could have been expected, although a further decline could not be entirely averted, and as compared with the previous auctions the fall amounted to 5s. or 6s. on Second orange, 6s. on Garnet, and about 7s. on Button lac. The following prices were paid:—First orange, 88s. to 86s.; out of condition, 83s.; Second orange, good palish at 73s. to 74s.; fair bright reddish, 70s. to 72s.; livery, 68s. to 58s.; Garnet, AC fine free, 57s. to 58s.; ditto out of condition, 55s. to 56s.; AT dull, 55s. to 57s.; ditto OCC fine thin ruby, 55s. to 58s. Button, good first, 99s.; fourths and dark third, 78s. to 80s.; glassy third at 75s. to 77s. Following the auctions there has been a further decline of 2s. to 3s. with a rather important business, but the market closes a little better, though irregular, with business in Orange TN March, 72s.; April, 72s. to 73s.; May, 73s.; July, 75s.; and Garnet AC April, 59s. 6d. per cwt.

SIMAROUBA.—There have been some arrivals in New York and Hamburg. The price on the former market is given as 6d. per lb.

Spermacett.—Higher prices are reported for American refined, owing to the advance in the sperm oil market. The latest New York quotation is 1s. 1d. per lb. c.i.f. terms.

Squills.—Twenty bags ordinary dull sold without reserve at $1\frac{1}{4}d$, to $1\frac{1}{2}d$, per lb.

TEA.—China tea is dull, with but few orders from the country, and dealers only buying actual necessities on the market. Fair common N.S. Kaisow remains at $4\frac{1}{3}d$. per 1b., while good sweet Soomoo and Panyong may be had from 5dto 7d. Better second crop Panyongs are slightly firmer, with rather more export demand. Monings are without alteration, with fair common tea selling from 5d. to 6d. Better grades are very slow of salc. Newmakes are still cheap, with fair "honeysnekle" sorts selling from $7\frac{1}{2}d$, up to really fine teasfrom 11d. to 1s. 1d., but commonest grades are not wanted. S. Capers are slightly easier, commonest sorts selling $6\frac{1}{4}d$. to $6\frac{1}{2}d$. All better grades of Assam are firm, finest teas being much wanted, and good medium Pekoes from 11d. to 1s. 2d. firm at the recent advance. Pekoes from 8\d. to 9d. show an inclination to advance, and as these sorts have been wonderfully cheap, and the grades above them have moved up considerably, it is probable that they will incline further upwards. Ceylons are steady for all grades, common sorts showing no further decline, and teas from 10d. to 11d., which have been lately exceedingly cheap, are well competed for, and slightly dearer.

TURMERIC.—Over 2,000 bags *Bengal* were sold at auction on Tuesday without reserve at a decline of 1s.; rather lean to fair sound, 8s. 9d. to 9s. 3d. per ewt.

Vanilla.—Of 114 tins offered to-day nearly the whole was sold at an advance of 1s. 6d. to 2s. per lb. on fine lots, of which a good proportion existed: Fair uncrystallised chocolate, $5\frac{1}{2}$ to $7\frac{1}{2}$ inch, 13s. 6d. to 17s.; $7\frac{1}{2}$ to $8\frac{1}{2}$. 18s. 6d. to 19s. 6d.; tair rather brownish $5\frac{1}{2}$ to 8, 11s. 6d to 14s. 6d.; common 5 to 7, 8s. to 8s. 9d.; low foxy, 2s. 6d.; and fine crystallised $7\frac{1}{2}$ to 8, 23s. to 24s. 6d. per lb.

WAX (BEES') sells very briskly; Jamaica, fair yellow, 6l. 5s.; good orange. 6l.; brown and grey, 5l. 15s. to 5l. 17s. 6d. For fine Madayascar 5l is asked.

THE AMERICAN MARKETS.

NEW YORK, February 9.

In the several departments of drugs, dyestuffs, and chemicals business, taken as a whole, is reported as somewhat better, but the continued absence of speculative attention gives the general market a tame appearance.

BALSAM COPAIBA has been in quite free receipt of late, both from England and primary sources. The former, consisting of *Maracaibo* and *Maranham*, has been held at 55c., and sales are understood to have been made at prices approaching closely this quotation, while the direct parcels of *Angostura* have realised about $57\frac{1}{2}c$.

BUCHU.—Short leaves have been urged for sale at low prices. Business has resulted to the extent of several thousand pounds, for which 4c. and $4\frac{1}{4}$ c. was paid; for additional parcels to-day $4\frac{1}{5}$ c. is asked.

CAMPHOR (REFINED), owing to continued neglect, has been reduced to 29c. on barrels, but the concession granted has not quickened the distributive movement.

CASCARA SAGRADA, true, has been in active demand, resulting in sales of 3,000 lbs. at 40c. and 42½c. The remaining stock is exceedingly small, and held at 45c. The continued arrivals of false bark have ceased to have a disturbing influence upon the market, as the trade are now well aware of the quality of the stock, and decline to relieve the hands of receivers, notwithstanding the pressure to realise is urgent; the price for such is 20c. and 22c.

Chlorate of Potash is dull and unsettled. Crystals are readily obtainable at $14\frac{1}{4}c$., and it is intimated that in some instances $14\frac{1}{4}c$, has been accepted.

COLOGYNTH.—Trieste apples are scarce and in demand; the quotation of the market is 44c. to 45c.

IPECACUANHA, influenced by the sndden advance in London, has risen in this market to \$2.10 to \$2.15 per lb. Sales have been made at the inside price, but holders are indifferent sellers, as supplies cannot be duplicated to-day at an equivalent figure. The total stock in this market is said to not exceed 20 serons.

OPIUM has continued dull, but there has been no important variation in the price, though in some few instances a slight concession from the recent extreme has been allowed where a number of cases have been required. For low-test \$2.07½ to \$2.10 in bond is the range of the market, and for the higher grade \$2.35 is demanded. Owing to the difference in price the former is given most consideration by the trade, though purchases, as a rule, are gauged closely to actual necessities.

OILS (ESSENTIAL).—Pennyroyal has been advanced here to 95c., due to small and concentrated stocks and light receipts. Peppermint oil has continued extremely dnll, the trade being about at a stand. For HGH \$3.25 is quoted as strictly inside, but exporters ideas do not exceed \$3.10 to \$3.15, hence operations are held in check. Bulk is not quotably lower, though there is rather more urgency to realise, bids being solicited. Buyers, however, are absent.

QUICKSILVER, disturbed in London by the action of the Rothschilds, has had a similar experience here. The first break in the value to 8l. sent this market to 56c., and the two subsequent declines in London set the whole trade at sca. The reaction to 8l. 10s. caused a rally, and to-day the value sought to be obtained is 60c. No considerable business has resulted.

QUININE continues dull and depressed. Foreign brands in large bulk have eased off 28c. to 29c., but the decline has not aided the distribution, nor quickened speculation, the demand being confined wholly to quantities sufficient only to meet the current consumptive requirements of the country. At this recent concession there is no great urgency to realise, and bids not strictly in accordance with holders' ideas are firmly declined.

SHELLAC has quieted down somewhat the past week, but the market retains a very strong tone, supplies being carried with confidence in a further appreciation in the value soon. For DC 26c. to 27c, is the firm quotation of the market, and at the inside some business has been done between dealers. VSO is held at 24c., TN quality 20c., and Garnet 16c. Dealers here are endeavouring to obtain offerings of forward shipments from Calcutta, but the manufacturers decline to open up negotiations.

THE AMSTERDAM CINCHONA AUCTIONS.

(Telegram from our Correspondent.)

AMSTERDAM, February 21.

AT the public auctions of cinchona bark held here to-day 2,982 packages, out of a total of 3,392 catalogued, were disposed of at lower rates, the unit not averaging over 8c. per $\frac{1}{2}$ kilo., or, say, $1\frac{3}{8}d$. to $1\frac{1}{2}d$. per lb. For manufacturers' barks, in shavings, chips, and quills, 11c. to 107c. per $\frac{1}{2}$ kilo. (=2d. to 1s. 7d. per lb.) was paid; ditto root brought from 12c. to 29c. (= $2\frac{1}{4}d$. to 5d. per lb.); druggists' barks, chips and quills, broken and long, from 4c. to 75c. (= $\frac{3}{4}d$. to 1s. 1 $\frac{1}{2}d$. per lb.); and druggists' root bark from 35c. to 56c., or 6 $\frac{1}{4}d$. to 10d. per lb. The principal purchasers were the Brunswick Quinine Works, the Amsterdam Factory, and Messrs, C. L. Schepp & Zonen, of Rotterdam. The manufacturing bark which was sold alone contained an equivalent of 285,000 oz. of sulphate of quinine.

CHEMICALS IN THE NORTH OF ENGLAND.

O'TR market for chemicals generally still continues dull, and values have been scarcely maintained. The reduced output of some heavy chemicals has not yet been continued sufficiently long to create a scarcity of supply, but there is no doubt that ultimately our markets must be materially affected, and the prices advanced by a reduction of make. There are still reports of various combinations in the chemical trade, but there is only one which at the moment is drawing to a satisfactory conclusion, viz., in

SULPHATE OF MAGNESIA, a special arrangement having been made between the English and foreign makers, resulting in an advance of 25 per cent., and higher rates are ultimately looked for. It is, however, impossible to give a quotation which represents the present real market price. The nearest value is 4l. per ton. As far as we understand, this new union will include the raw material, as well as the chemical obtained from it.

ACIDS.—Tartarie has been quiet during the past week, but there is no material change in value, and foreign is held here at 1s. 4d. per lb., but the demand is very limited at present. arrivals being heavy against contracts made some time back. Citrie may be quoted at 1s. $5\frac{1}{2}d$., but there is no demand whatever for export. Oxalie has had a fair inquiry at $4\frac{1}{2}d$. per lb., and this article is very firmly held. Boracie is offering somewhat more freely at 25s. 6d. to 26s. per cwt. spot and forward. Stocks on the spot are not heavy, but demand is of a very limited character.

AMMONIA SALTS.—Salammoniae has been in steady demand at the advanced prices recently established, first moving off at 36s., and second quality at 34s. per cwt. Muriate—The export inquiries continue, and makers are busy with orders; the present lowest quotations are 25s. np to 36s. per ton, according to colonr, crystal, and purity. Carbonate is very firm at 3\frac{3}{4}d, to 4d. per lb., and at these prices steady sales have been made. Sulphate is less active, bu holders decline to give way in prices. The closing quotations are for good grey, spot at 12l. 7s. 6d., and Hull at 12l. 3s. 9d. to 12l. 5s.

Borax.—Makers are holding for 30s, for crystal and powdered; second-hand lots are offering, however, at 28s, 6d. Stocks of Californian are much reduced, and held generally for advanced rates. The New York market is still moving upward.

BLEACHING POWDER is still neglected, and continues to move off very slowly, in the absence of export orders, the closing prices being 7l. for soft wood on rails, and 7l. 10s. to 7l. 12s. 6d. for hardwood, f.o.b.

THE SPANISH DRUG TRADE.

The following are the quantities (in kilogrammes) and the values (in pesetas, value 10d.) of the principal articles of pharmaceutical interest imported into and exported from Spain during the last three years:

1mponrs	1886	1887	1883
Colours, erude	htts. 2,870,120 kilos. 2,002, 55 1 907,908 kilos. 254,992 htts. 509,984 kilos. 2,258,747 https. 1,694,004 kilos. 356,343 htts. 534,514	241.999 2.°03.988 1.932.384 1.838.002 344,550 689,110 1.937,149 1.452,859 397.274 595,911 156,624	264,762 3,177,144 1,939,628 1,913,191 375,892 7c5,784 1,636,434 1,204,825 484,561 726,840 125,766
Acid, hydrochloric weight weight weight weight walue; nitrie weight value; shift and the shift weight weight weight weight weight weight weight weight walue; weight walue;	otas. 1,600,047 kilos. 2,616,187 otas. 313,942 kilos. 84,581 otas. 50,748 kilos. 1,223,838 otas. 208,052 kilos. 861 otas. 215,250	1,409,549 2,030,688 243,678 72,162 39,689 652,502 104,400 999 249,750	1,131,891 1,217,983 146,058 38,389 21,114 438,436 70,147 86) 215,000 1,530,033
Sulphur value j	tas. 278,201 kilos. 5,974,012 ptas. 776,622 kilos. 21,193,444 ptas. 5,086,427 kilos. 2,967,645 ptas. 771,588	1,440,862 244,946 12,207,237 1,586,940 20,676,409 4,548,809 3,220,397 837,303	260,105 6,584,931 856,C40 21.543,190 4,739,501 3.872,720 1,003,905
magnesia salts weight value properties weight valu	ptas, 207.382	1,409.624 1 40.968 52,836 305.316 1,301,625 517.317 7,155,239 2,003.467 16,196 180,995 904,975 2,494,323 2,494,323 162,870 1,301,622 321,224 1,012,130	1,124,275 112,427 48,145 288,870 1,003,545 580,956 9,502,364 2,660,661 6,835 68,350 172,886 861,495 2,816,780 2,815,780 1,35,649 1,160,092 273,553 818,620
Licorice root weight " value	b kilos. 3,729,024 ptas. 932,256 t kilos. 565,925 t kilos. 6,624,425 thas. 4,637,098 t kilos. 688,633 thas. 633,542 t kilos. 31,378 t kilos. 1,376,416	1,335,281 8,011,686 3,516,667 879,168 460,588 598,764 5.815,209 4,070,646 779,615 717,260 25,714 2,316,260 72,529 87,034 762,642 686,378 11,443,295 9,726,784	1,104,883 6,629,298 2,125,673 531,429 405,505 527,050 7,209,597 4,686,234 1,001,595 1,001,595 1,33,862 3 047,580 137,995 165,593 1,206,376 1,085,740 12,027,112 10,223,059

A VIEW OF AMERICAN OIL OF PEPPERMINT.

(Communicated by Messrs. Schoellhopf, Hartford & Maelagan, of New York.)

MISLEADING statements being constantly circulated about this article, we deem it necessary at this time to lay a carefully-prepared statement of the true position before our friends

The low price of oil of peppermint in the early part of 1888 greatly discouraged the growers, who, finding it an unprofitable crop, planted out a much smaller area; and, as we have repeatedly stated, the output of oil fell away largely from that of previous years. Now that the bulk of the crop is marketed it is possible to get a closer idea of the actual yield, and we have no hesitation in stating that only about a

half was produced in 1888 compared with 1887, while the latter year fell short of 1886.

The actual amount of pure oil now left in Wayne county is at the most 10,000 lbs. (equal to 450 cases H.G.H.); but the bulk of this is held by speculative farmers, who know the true position, and are determined to profit by it. Half of this could probably be had at the parity of 16s, per lb. for H.G.H., but 20s, would not get them to part with all of it. In Michigan the stock of oil is also reduced to narrow limits—under 10,000 lbs.—and the most of this being in speculators' hands is held for high prices. True it is that oil is offered both from Wayne co. and Michigan at low figures; on investigation we find such lots very inferior, weedy, adulterated, and unfit for export, therefore left out of our calculation. The stock of the H. G. Hotchkiss brand has not been so small for fifteen years, viz.:—Stock, February 1, 1889, New York, 200 cases; London, 300 cases; Hamburg, 100 cases.

A year ago the stock in New York alone was over 1,000 cases, two years ago 1,500; while London in former years carried up to 3,000. American oil still retains its supremacy in the different markets, and will undoubtedly continue to do so. The H.G.H. brand being mostly all exported, the following statistics of the quantity bottled by Mr. Hotchkiss will give a fair idea of the demand; - Season beginning October 1, 1884, 1,540 cases; 1885, 1,400 cases: 1886, 1,960 cases; 1887, 3,050 cases.

Since last October, however, Mr. Hotchkiss has bottled only 135 cases. This is explained by the short crop and the high price of oil not admitting his doing it at a profit. The export demand for oil in time keeps increasing every year, the following being the total quantity of oil of peppermint shipped:—Season 1884-5, 55,000 lbs.; 1885-6. 75,000 lbs.; 1886-7, 85,000 lbs.; 1887-8, 105,000 lbs.; 1888-9, 25,000 lbs. to February 9.

The name of "Wayne county" oil is very often used with regard to bulk oil to designate simply pure prime quality oil of peppermint, and not as meaning oil from Wayne county New York State

county, New York State.

As regards Michigan cil, a few years ago, owing to the careless cultivation, mixing, and dementholising carried on in this state, its peppermint got a bad name. There is no reason why the oil grown in Michigan should not be equally as good as that of Wayne county, and this may explain why the so-called "Wayne county" of our market rules so cheap. It might be said: "Why does not Mr. Hotchkiss buy this oil and bottle it?" He only bottles oil grown in his own district, and which he gets direct from the growers.

THE GERMAN MARKETS.

HAMBURG. February 19.

THERE is little to report this week, but nearly all alterations that have occurred have been in the directions of better prices.

The prices in this column are given in marks $(11\frac{3}{4}d.)$ per 100 kilos, or per kilo (1 kilo. = 2 lb, $3\frac{1}{2}$ oz., $50\frac{3}{4}$ kilos. = 1 cwt.).

Balsams.—In Copaiba a very firm feeling prevails, and 5m. for Maracaibo and 4.50m. for Bahia has been paid although the second-hand quotes lower rates. Peruvian.—Holders seem inclined to advance their quotations, but it does not appear that such a proceeding is warranted by the state of the market. Tolu remains unchanged.

BARKS.—Cinchona.—Of Porto Cabello there is no alteration to report in the values. The scarcity continues, and fine qualities are held at 135m. to 150m. Several parcels have been received this week. Caseara Sagrada.—Gennine qualities are higher; 4.50m. has been paid. Condurango is still quoted at 140m. to 150m.

GUM ELEMI. Fine qualities remain very scarce; 85m, is now quoted.

JALAP. A steady business is doing, and for sould Vera Cruz 125m, is asked.

SABADILLA SEED.—A firm of speculators have entirely cleared the stock in first hands, and consequently a better feeling prevails in the market, the quotations now being 65m. to 68m., according to qualities. Small quantities of the new crop have arrived.



Memoranda for Correspondents.

Always send your proper name and address: we do not publish them unless you wish: if you do not, please use a distinctive nom-de-plume.

Write on one side of the paper only; and devote a separate piece of paper to each query if you ask more than one, or if you are writing about other matters at the same time.

Ir you send us newspapers, please mark what you wish us to read. Ask us anything of pharmaceutical interest: we shall do our best to reply. Before writing for formulæ consult the last volume, if you have it. Letters, queries, &c. will be attended to in the order received.

The Pharmaey Bill of 1889.

SIR,—May I suggest that you take the sense of your readers upon the Bill you proposed, either by a post-card vote, or by voting-papers issued with the next CHEMIST AND DRUGGIST! Since we have allowed the trade association to die out we have no means of ascertaining the feeling of the trade on any question except through your valuable assistance. I am quite sure we ought to make a serious attempt to get a Bill passed on some such lines as you pro-I shall certainly do all in my power to defeat the Carriculum Bill of the Pharmaceutical Council unless such clauses as you suggest are embodied in it. I repeat that the thanks of the whole trade are due to you for coming forward at an opportune moment with such valuable suggestions, which, if acted upon in a spirit of unity by the trade, will result in the passing of a most valuable measure. Yours, &c.,

THOMAS C. E. OSBORNE. 19 Moss Lane West, Manchester, February 18.

SIR,—Your issne of last week was so replete with ideas tersely expressed that one was tempted to exclaim, "Here is something real at last!" The scheme of "Spondilix" is very practical, and is what some of us have done for a long time past, as far as writing to all the individual M.P.'s of our acquaintance. I desire to emphasise his request that yon will issue a suitable letter to every chemist on the register, and will hold myself responsible for the expense of so doing to one hundred chemists, if you will accept my guarantce.

But, alas! the pharmaceutical "maggot" in my head (as a polite friend described my hobby the other day) bites and whispers, "What will the House sav to such a freelance warfare in the trade as will be evinced?" I am glad to see that the belief in a curriculum is growing. It is the one good sign of nltimate practical agreement.

Yours truly, HEDER.

SIR,—I entirely concur with the four clanses which von give in your issue of February 9. I also think the following clauses could be advantageously added :-

1. That all patent medicines containing a scheduled poison shall be distinctly marked "poison" on the ontside wrapper, and be sold only by a registered chemist.

2. That the number of chemists should be limited in every town, so many to a certain number of inhabitants-say about one chemist to about 3,000 inhabitants. The register of chemists to be kept up to a certain number, and as vacancies occur allow only a sufficient number to be qualified to fill

3. As an addition to your clause 4, that carbolic acid and all poisonous mineral acids be placed only in a specially-constructed bottle, infringements of this regulation to be punished by a fine, and in case of a fatal accident a verdict of manslaughter to be returned against the chemist if he has not complied with the Act.

I think the Curriculum Bill will do good by lessening the

horde of pharmaceutical aspirants, and by making the examinations harder it will improve the education of the chemists and make people look on them in a more professional light, making them more inclined to pay them according to their abilities. In my opinion the Preliminary examination is a perfect farce; the questions are ridiculously easy. Several subjects want tacking on, as algebra, Euclid, and chemistry, all of which improve the mind and make the student more fitted to go through his other examinations. l am, yours truly,

LEANDER. (251/56.)

The Newcastle Chemists and the Medicine-stamp Duty.

SIR,-I am obliged to you for the prominence given by your editorial remarks to the proceedings at the meeting of chemists and druggists held at Newcastle-on-Tyne on February 13, as it is of importance that the serious attention of your readers should be at once directed to the subject there considered; at the same time I must take exception to your charge that the resolution aimed at was the result of a "distinctly erroneous statement" made by me. The statement was that the Board of Inland Revenne had arranged with a deputation from the late trade association of the chemists and druggists of Great Britain that warning should be given in case of first offences against the Patent Medicine Acts, when the authorities were satisfied of the bona fides of the offender. Your report of the interview which took place on that occasion sets forth that in addition to this the offender must be able to show that he had reasonable grounds for snpposing the preparation was not liable to stamp duty, aud, further, that each case must be judged on its own merits. I fail to see that these conditions make any material difference, as no one can rightly claim that he is acting in good faith, unless he has some reasonable grounds for believing that what he is doing is right, and it is obvious that only a special consideration of each case can decide

But there were other circumstances that led the meeting to adopt the suggestion of memorialising the department.

Many of the cases of threatened prosecutions in Newcastle are for the sale of Dale's plaster. This preparation is supplied in small rolls and retailed at 1d.; its composition is well known, and for seventy years it has enjoyed a large sale in the two Northern counties. The label simply gives the name of the article; it claims no secret art iu making, no exclusive right to make it, and contains no reference to the possession of any remedial property.

Now we think it very desirable to have it definitely decided whether a preparation put up and sold under such conditions is or is not liable to stamp duty.

Yours faithfully,

JOHN HARRISON. Sunderland, February 20.

[The report of the Newcastle meeting clearly showed that Mr. Harrison led the chemists there assembled to believe that the Board of Inland Revenue had both verbally and by published covenant consented to give warning. The meeting demanded that "the terms of the memorandum" should be adhered to. The memorandum said nothing whatever about cautioning offenders. The report of the conversation between the deputation, a part of which we reprinted last week, showed, as far as we can understand English, that the Commissioners declined to give warnings, but would not take proceedings in cases where they were satisfied of the good faith of the person who had infringed the Act in first offences, provided also that such a person could show he had reasonable grounds for considering the article not liable. The sale of Dale's plaster appears to correspond with the Blaud's pills case, on which we obtained from Mr. Finlay, Q.C., an opinion adverse to the claim of the Board of Inland Revenue. —ЕD. Т

Poisons Regulations.

SIR,-An instance has lately occurred to my knowledge which shows the apparent worthlessness of the Poisons Act. A butcher's assistant rents a shop which he stocks with veterinary medicines and proprietary articles for human ailments. He calls himself V.P.D., which he acknowledges means veterinary practitioner for dogs, and declares it is quite legal. He used to purchase 1 oz. liq. arsenieal., and sign in the poison book, "for killing dogs"; but I now find he uses it for improving the coats of horses and dogs, and buys a Winchester quart at a time of a wholesale house without signing, and the invoices of which he can searcely read. Now a chemist is not permitted to visit patients, yet this aspirant without let or hindrance exercises his skill in treating cases where doctors have failed. I do not know whether he uses the arsenic himself or supplies it in bottles to customers, but I am curious to know whether an illiterate and unregistered individual can dole out such a dangerous poison in face of all Poison Acts, and, if not, how can he be stopped without bringing one's self into a conflict with him or into local notoricty? Yours truly,

ATTRACTION. (48, 243.)

[Communicate with the police, the Pharmaceutical Society, and Royal College of Veterinary Surgeons, Red Lion Square, London.]

Effects of Antipyrin.

SIR,—The following ineident may perhaps serve as a warning to some of your readers. On Saturday evening last a neighbouring tradesman eame in and asked me for something for a bad headache. He appeared to be pretty bad, and I gave him 10 grains of antipyrin in solution. About half an hour afterwards he rushed in again, in a state of great exeitement, to ask what I had given him. Evidently he thought he was poisoned, and I believe half the people who were in the shop (and there were a good many) jumped to the same eonelusion. His face was red and swollen, his eyes extremely blood-shot and streaming with tears, and his nose puffed up to twice its size, and completely stopped. With his mouth open, gasping for breath, he was a sufficiently startling object. Of course I assured him he was all right, and that (like Hood's doctor) I "meant it for that." He would, however, have an antidote. I put a 40-oz. bottle of liq. ammon. fort. 880 under his nose, but he could not smell in the least. I administered sp. am. arom., and laughed at his alarm, and by-and-by he became quieter, and thought, perhaps, he wasn't quite a gone eoon. He had sneezed, he said, fifty times, "hard-running," and had thought his head would burst. The pain was quite gone. Shortly afterwards he went too-to his shop.

Moral: Be eareful how you exhibit antipryin in COUNTER PRESCRIBING. (244/7.)

An Acknowledgment.

SIR,—My attention has been directed to the fact that in a paper ("Pharmaceutical Jottings") which I read recently before the Manchester Pharmaceutical Association, and of which you printed an abstract, I omitted to state the source of my information. My expressions of regret are due in a great measure to Messrs. Lehn & Fink, of New York, from whose pamphlet, "Notes on New Remedies," some of the paragraphs were taken verbatim. My other sources of information were the Manchester Medical Chronicle, Therapeutic Gazette, Journal of the Society of Chemical Industry, &c. No attempt at originality in any sense was aimed at, or, I hope, assumed in my paper.—Yours faithfully,

II. Wilson. (252/17.)

39 Bignor St., Manchester, Feb. 20.

DISPENSING NOTES.

The opinions of practical readers are invited on subjects discussed under this heading.

Ext. Sarsæ.

250/5. W. II. J. asks what should be supplied for the following:

[Extractum sarsæ liquidum, B.P., is intended. - ED.]

249/55. Country Chemist.—In the mixture containing bicarbonate of soda and tineture of belladonna the bicarbonate will slowly be changed with the formation of carbonate. The latter will act upon the natural alkaloidal salts of the belladonna, changing them to hydrates, but the amount of water present is sufficient to retain these in solution.

A Strong Mercurial Ointment.

245/72. J. P. has had the following prescription to dispense. It is of German origin, and is used as an inunction for syphilis:—

This should be made in the same way as mereurial oil (see page 193), viz., rub the mereurial ointment and mereury together in a mortar in which a little alcohol has been burnt, and in about fifteen minutes the whole of the metal will be extinguished. Now add the belladonna ointment and the lanolin and mix well.

A Nut to Crack.

 Sir ,—What is the best way of dispensing the following:—

	Strychniae		• •				gr. ss.
	Ac. carbolic.			• •	• •	• •	388,
	Ferri iodid.	• •	• •		• •		3iss.
	P. digitalis						gr. xv
٢.							

M.

Pil. 30 dividenda, quarum capiat unam ter dic.

Yours respectfully, A. J. F. (249,6.)

[This is a somewhat difficult mass, as it is not amenable to ordinary excipients. Make a mixture of yellow wax, 40 grains; powdered soap, 10 grains; and tolu balsam, 10 grains, melted together. Warm a mortar, and thoroughly incorporate the earbolic acid with about 35 grains of the excipient; then add the strychnine, ferrous iodide, and digitalis, previously powdered and mixed. Mass and roll out. When rolled out quickly and not handled too much they make a nice pill about 4-grain size. Set aside for a little, finish with French chalk or gelatine coat, and bottle]

Thymol and Extracts in Pill.

SIR,—Wanted, a satisfactory excipient or mode of treat ment for the following pills:—

The nearest approach to an easily workable mass was made by adding a small quantity of pulv. saponis and pulv. glyeyrrhize.

Town Hall Square, Chester, W. TURNER. February 18.

[Use half a grain of extract of lettuce and mix with the gingerine and extract of nux vomica. Separately mix the rhubarb, thymol, and 12 grains of compound tragacanth powder; add to the mixed extracts, and bring to the proper consistency with powdered althaea.]

LEGAL QUERIES.

9/257. C. M.—You must sue in the County Court of the district where the transaction arose, or in that of the district where the defendant now lives. You can take out a default summons, by which a hearing is avoided unless the defendant puts in a notice of defence. When you get indgment you will probably have to proceed by way of judgment summons to get an order of the court for periodical payments.

20/248. R. H. D.—Yes; the placard would render the preparation liable to medicine-stamp duty.

250/5. W. U. J. had a prescription presented to him on a small piece of soiled paper. It was for a mixture consisting of tinet, sabine 3vj, ext. ergot, liq. 3vj, dec. aloes co. ad 5vj. M $\frac{1}{9}$ quartis horis; also pil, aloes et myrrhæ gr. v. Tal, xij. Two at bedtime. The customer was a stranger. Would W. H. J. be justified in dispensing the prescription? [Certainly not. Although the Pharmacy Act does not require a chemist to know the writer of the prescription, in common respect to his citizenship a chemist and druggist should not dispense such a prescription as the above without assuring himself of the bona fides of the prescriber. Should the prescription be intended for what we presume it is designed to bring about the dispenser would be liable to eriminal prosecution if it could be proved that he did not take proper precautions before delivering the medicine. In this case the doctor's name and address were refused. This was a suspicious circumstance.]

33/257. J. S. W.—C. has no case. The verbal contract, which is all he has, is invalid, the Statute of Frauds necessitating that an agreement for a year or more shall be in writing. A month's notice is the custom of the trade, and that makes it sufficient, no matter at what intervals the wages have heen paid. B. can, of course, recover wages due to date of leaving.

MISCELLANEOUS INQUIRIES.

A largenumber of correspondents ask us for formula and other information already published in this journal. It is not fair to more careful readers that we should frequently repeat such information, and so long as the back numbers containing the formula or replies required are in print we must decline to do so. Back numbers of our weekly issue can be obtained from the publisher at 4d, each.

Correspondents who have made inquiries regarding the following subjects will find the information in the numbers indicated.

Castration Ointment (Green).—December 8, 1888, page 803.

Liq. Santal. Flav. Co.—DIARY 1889, page 273.

Mistura Copaibæ Co.—August 11, 1888, page 192.

Copying Ink.—February 4, 1888, page 176 (blue-black), and November 3, 1887, page 582 (violet-black).

Shop Decoration.—On this a very interesting discussion will be found in vol. xxxii., beginning page 92, January 21, 1888.

Liq. Bismuth. c. Pepsin.—DIARY, 1889, page 165. Also formula for mist. bismuth. co. in last issue,

Sheep-dip Powder.—Twice given in vol. xxxiii., last time December 8, p. 803.

Wheat Dressing.—September 22, 1888, page 426.

245/6. Agricola. - The "Laboratory Guide for Agricultural Students," by A. H. Church (5th edition), is a good book.

248/17. J. L. C.—The first ingredient of your prescription is ferrum oxydatum saccharatum solubile, Phar. Germ.

247/72. E. Woolsey. You will find several suggestions in the "Art of Pharmacy" (DIARY, 1887) for making large quantities of ointments, pomades, and enulsions. These you may be able to adapt to your own requirements.

246/40. Gwilym asks: "What is a soap?" Reply. A salt formed by the combination of a fatty acid and a base.

244/30. Tulip.—(1) The United States Pharmacopæia is published in this country by Sampson Low, Marston, Searle & Rivington, and the price is a gninea. Remington's "Pharmacy" contains all the formulæ and descriptive matter, and much else besides. Price 21s. (2) Artificial Essence of Raspberry.—Succinic acid, 1 oz.; tartaric acid, 5 oz.; aldehyde, 1 oz.; acetic ether, 5 oz.; amylbutyric, benzoic, butyric, formic, methyl-salicylic, nitrous, ænanthic, and sebacylic ethers, of each 1 oz.; glycerine, 4 oz.; tincture of orris, 10 oz.; caramel and fuchsine, of each q.s.; alcohol, 100 oz. Mix.

245,46. Dubio.—Please express your question more clearly.

247/64. Ayrshire Chemist. Soluble Essence of Ginger. —You will find numerous formulæ for this in vols. xxx. and xxxi. One of the best is given in the latter volume. It runs as follows:—Mix 2½ pints of strong tineture of ginger and the same of water in a gallon bottle, then add ½ oz. of powdered alum. Shake oceasionally, and after standing all night, filter. To the filtrate add ½ oz. of light carbonate of magnesia. Shake oceasionally and filter in not less than twelve hours. If the filtrate is not quite clear, add 4 oz. of rectified spirit to it. Flavours—such as vanilla or lemonshould be added to the strong tineture before it is mixed with the water.

246/64. *Physic.*—You have evidently not read the article "From Pharmacy to Medicine," which appeared in our issue of the 9th.

246/53. Mildmay. (1) Get the little book published by Stevenson & Howell, entitled "Aërated Waters, Cordials, &c.," which gives formulæ for all kinds of syrups. You can buy the essences cheaper and better than you can make them on a small scale. (2) Electric Light for out-door lamp. For a single glow-lamp two bichromate cells (at least 1 pint each) are the best and most convenient source of electricity that you can have.

Hop Tonic, page 95.—Pyrephosph (246,58) now writes regarding this:—" I have used tinctures in place of infusions, and added 2 drachms of Dunean's chloric ether to each 6-oz. bottle. The result is very satisfactory."

"May I as one of your latest recruits congratulate your journal on attaining its majority?" writes a Colchester correspondent. We are obliged, but our kind friend is about ten years too late, as our front cover shows. We accept the compliment on behalf of the Diary.

21/245. Minor asks:—What does the Pharmaceutical Society give us for our annual subscription of 21s. beyond the Pharmaceutical Journal—which, by-the-bye, we could exist without? Would the withholding of the annual subscription by those who do not believe in "the Square," as at present constituted, be the means of eausing our representatives, as they are called, to give some attention to our trade interests? If so, "Minor," for one, will withhold his.

248/13. Apprentice.—You may have succeeded in fixing the aniline marking-ink into the cloth by the treatment to which you have subjected it. Try, however, the following for its removal:—

Rectified spirit $\frac{1}{2}$ Nitrie neid $\frac{1}{2}$

Allow to stand for two hours in an uncorked bottle; then add 2 oz. of water, and apply sparingly to the spots.

247/55. *H. C.*—Euealyptus honey is made by bees out in Australia, and may be obtained through wholesale houses in this country.

247/44. J. W. Smith.—The Sale of Food and Drugs Act and all other Acts of Parliament can be obtained from Eyre & Spottiswoode, East Harding Street, E.C.

37/248. A Medical Poet.—Your communication is too mixed. You lump a number of topics together, and we really cannot make out what your principal point is.

72/246. E. H. M.—We cannot now refer to the post-eards.

2/250. A. \Im B.—See article, "Openings in Australia," in this journal, January 5, 1889, and then apply to our Australian department here personally for any further information you want.

Unsuspected Virtue. — Messrs. R. W. Duck & Son, Cardiff, write:—"We were recently asked for a bottle of Elliman's embrocation for furniture, as the applicant found it so much superior to furniture cream for that purpose. We asked if she had tried furniture cream for rheumatism, but the idea had not yet struck her."

249/61. Citizen.—Water dissolves about one five-hundredth of its weight of oil of peppermint.

250/6. J. Cammack.—(1) Whisky is spiritus frumenti. (2) Euchrisma.—The following is the formula generally used:—

248/45. Seabrecze. — Liee in Cattle. — The following dusting-powder may, perhaps, suit you:—

248/42. Alpha (Wolverhampton).—(1) Resins similar to Jalapin are contained in the roots of a large number of plants belonging to the same natural order as jalap, but we have not heard of resin of scammony being sold as jalapin. It is probably the resin of *Pharbitis nil* which you are thinking of. (2) Allow the inf. aurant. conc. to stand for some time before filtering. The cloudiness is due to mucilage precipitated by the spirit.

246/29. *H. E. C.*—Parrish's Syrup.—It is generally allowed that it is impossible to make a palatable and permanent syrup containing 1 grain of phosphate of iron and $2\frac{1}{2}$ grains of phosphate of calcium in each fluid drachm. The formula given for a liquor (1 in 4) on page 334, vol. xxxii., is intended to provide a syrup of the Unofficial Formulary strength—*i.e.*, about $\frac{1}{2}$ a grain of phosphate of iron and $\frac{4}{5}$ ths of a grain of phosphate of lime per fluid drachm.

247/41. J. A. M.—In our last Educational number (September 22, 1888) you will find a complete list of books for the Minor and Major examinations. For the Preliminary you will find the following useful:—White's Cæsar and Virgil, Books I. (Longmans, 1s. each). Keys are published by Cornish, at 1s. 6d. each. Grammar—Dunlop's Latin course, 1st and 2nd years (Chambers, 6d.). For arithmetic, use Barnard Smith's book (Maemillan, 4s. 6d.) and his "Metric System" (3d.); and for English, Morell's Grammar and Analysis (Longmans, 2s. 6d.).

246/27. Nes. (1) Kaufmann has, it is said, succeeded in solidifying petroleum or paraffin oils by heating for half an hour with from 1 to 3 per cent. of common soap. (2) For Reviving Linoleum a furniture oil, such as No. 2, page 261, DIARY 1889, is most suitable.

246/62. Chemists. Catarrhine (DIARY, page 162).—This preparation can be used both externally and internally. When the symptoms are in the acute stage the adult patient should take a teaspoonsful of the eatarrhine every hour for four doses, then a teaspoonful every three hours. The nostrils may be bathed occasionally with a lotion consisting of a teaspoonful of eatarrhine in half a teacupful of warm water.

247/38. F. Williams makes a Quinine and Iron Tonic. consisting of ferri et quin. cit., magnes, sulph., glycerin. and aq. chloroform. By exposure to the light the mixture becomes perfectly colourless. Why? asks our correspondent. Because ferric salts (which are all coloured) are reduced to the ferrons state in presence of glycerine or other alcoholic bodies, through the influence of sunlight. The mixture is as good a tonic as ever, perhaps better, and the colour may be heightened by the addition of a little caramel.

247/31. G. H. B.—We have never heard of any process for removing the colour from dark acacia mucilage. A workable process of this kind would make the fortune of the one who discovered it.

249/45. T. F. Walher.—Tartaraline is not a patented preparation. When first introduced the article was simply acid-sulphate of potash, but, as it was pointed out that that salt is stronger in acidifying power than cream of tartar. some starch has lately been added. It is largely used for baking, and is, doubtless, as effective as cream of tartar. Your regular wholesale house will no doubt supply it.

249/44. F. C.—As the clear colour is due to the action of the alkali, it is only to be expected that when you charge the aqueous infusion of ginger with carbonic acid gas it will again become cloudy. After treating with carbonate of magnesia, try the addition of a little phospho-citric acid, and allow to stand until the flocculence separates.

248/57. Sunat.—Petroleum oils combined with soap and water do not harm fabries which are washed in the mixture.

251/11. Beverage.—Horehound Beer.—This may be made as follows:—Infuse 1 lb. of horehound and 4 oz. of ginger root in 2 gallons of water for an hour; strain, and repeat. In this infusion dissolve 7 lbs. of sugar and 1 lb. of liquoriec juice, make up to 10 gallons with water, and add oil of peppermint, 10 drops; oil of lemon, 2 drachms; and essence of Jargonelle pear, $\frac{1}{2}$ oz.; mixed with an ounce of rectified spirit and $\frac{1}{2}$ oz. of tineture of capsicum. Place this sweetened mixture in a suitable vessel, add $\frac{1}{2}$ pint of brewer's yeast, allow to ferment for twenty-four hours, then strain through flannel and bottle.

251/6. Ajax.—See "The Art of Pharmacy" for directions for the preparation of concentrated infusions and decoctions. There is no other book, that we are aware of, which contains the information.

251/10. S. Arthur.—Preserving Books from Damp.—We understand from your query that the books are to be sent some distance in wood cases. Line the eases with pitchpaper, the pitch side being placed next the box. Then pack the books, placing here and there a piece of naphthalin and a piece of camphor. Some Sanitas disinfecting powder (enclosed in envelopes) would also be of advantage.

251/1. Carlo.—Yes; but if you read the article again, you will notice that the College of Preceptors does not give a certificate. The Medical Registrar is simply informed of the success of the candidate.

251/35. Nux.—Panama Wood is a name which is applied to quillaja bark.

251/80. Glencoe. -M.D., London, is the most esteemed degree. Next to that we should place the equivalent degrees of the Cambridge and Oxford Universities, then the Edinburgh and other Scotch degrees, the Irish, and English. The value of F.R.C.P., M.R.C.S., L.S.A., and the like depends greatly upon the locality wherein the holder practises. But you seem to confound degrees with titles. The former you seem to confound degrees with titles. M.D., M.B, and C.M.—are unquestionably of greater value than a title. The best students aim to have both; London students, for example, taking L.S.A. and M.R.C.S. generally. and, occasionally, M.B., Lond., in addition.

251/21. Crucible has a large stock of quinine, and wishes to know how to convert some of it into Liquor Ferri et Quininæ Citratis, easily. Follow the Pharmacopæia process for making the scale preparation; but instead of evaporating to a syrupy consistency, bring the solution down to fl. \(\) \(\) \(\) Two minims of this will contain \(1 \) grain of citrate of iron and quinine. (2) It would indeed be very interesting if, in addition to giving students prizes for analyses, we told them the best way for finishing off their work; but a line must be drawn somewhere. You will find Slatter's "Practical Inorganic Chemistry" (Murby, 2s. 6d.) a You will find very useful book, and specimen reports of analyses in Durrant's "Chemistry and Heat." (Rivingtons. 3s.) (3) If the patent for the preparation of soluble saccharin is valid, you would lay yourself open to risk by selling a mixture of 100 parts of saceharin and 50 parts bicarbonate of soda as "soluble saceharin." This proportion of soda is required to dissolve the saceharin in water.

251/59. Welshman.—The Pharmaceutical Preliminary examination will stand *pro tanto* for registration as a dental student on the same conditions as for the medical profession. One of the requirements for the L. D. S. Diploma demanded of those who have entered since the passing of the Dentists Act is that they should have served with a registered dentist for a specified period. See our issue of September 22, 1888.

248/61. Attraction.—We take it from what you say that the silver hyposulphite has been reduced to sulphide, Ag₂S. This you may recover by collecting, washing, and treating with nitric acid to convert back to the nitrate, which will be obtained as erystals on evaporation.

213/18. Phen. — Trichlorophenol may, according to Laurent, be made from crude carbolic acid by passing chlorine gas through it for a day or two; then distil to dryness, collecting for use only the middle portion of the distillate, into which chlorine is to be passed until it sets into a crystalline mass. Spread this out on bibulous paper, press, and dissolve in boiling water containing ammonia; filter, and decompose the trichlorophenate with hydrochlorie acid; wash the trichlorophenol earefully, dry, and redistil.

249|6. A. J. F.-Cockle's Pitls are supposed to be composed of ext. coloc. co., ext. hyoscyam., and pil. hydrarg.

201|20. Farmacista.--"The Gas Engineers' Chemical Manual," by Wanklyn. (The Scientific Publishing Company. 5s.) This book gives the information required.

7/249. Ornamental.—We published the result of a post-eard competition on "designs for chemists' shops" on October 20, 1888. We should not, therefore, eare to open our pages for a similar subject again.

PRACTICAL NOTES FROM SUBSCRIBERS.

White Oils

246 29. H. E. C. writes: - "I have made this by the following process, which is easier and more certain in its results than the directions in DIARY :- Dissolve the soap, oil, and camphor in the spirit and turpentine, beat up the eggs with Oj. water, then add the solution of soap, &c., gradually, shaking between each addition; finally add the ammonia previously mixed with sufficient water to produce 80 oz. I omit the acctic acid it is a mistake from a pharmaceutical point of view, and therapeutically—1 should say ammonia is a better rubefacient than the acetate in white oils.

Bees' Wax and White Wax.

"I feel," writes H, E, C, "indebted to Mr. Proctor for his practical paper on the above, and hope you will have other communications from him. On testing my yellow wax according to Mr. Proctor's method I found it all right, but the white wax did not sink with the extreme limit allowed, showing its mixture with a lighter body. I had suspicion of it previously from its rather transparent appearance. A second lot just put into stock barely sinks with the extreme limit allowed.

A Good Red Colour for Carboys.

I have found a little phenolphthalein and liq. potassæ diluted with water answer admirably in all respects MAURICE HOWELL JONES.

Oil of Sassafras.

In a note concerning ol. sassafras in last week's journal it is recorded parenthetically that 1 gallon of this oil weighs 9 lbs. This is not so, because the specific gravity of the oil is heavier than water, viz., 1.087-1.094, which will make a yield of about 1 per cent., and this accords with previous observations.

Information Wanted.

[Replies to the following requests are solicited by correspondents of THE CHEMIST AND DRUGGIST.]

240/67. Gowland's Paste, what is it? Also what essence of spice for hot-cross buns do Kent people particularly favour? Pimento is what is generally used, but the changes are rung on this, cloves, cinnamon, nutmeg, lemon, and others, according to geographical situation, we find.

245/38. Where is Menier's snuff obtainable?

244/40.—What is the difference between ol. succini rect. at 1s. 10d. per lb. and ol. succini ver. at 16s. per lb., and how is the former concocted?

Country Chemist would be glad to know the best method of erecting a window enclosure so that light may be reflected through to show off goods at night. Window contains two large panes and a carboy in each.

247/52. Spirit of oil, used for hæmorrhoids. What is it! 240/17. Julius Fehr's compound taleum baby powder; where obtainable?

240/11. What is horse easter, and where obtainable?238/12. What is the best way to wax dancing-floors?241/50. Formula for marking-ink for woollen goods.

241/80. Name of importers of L. Lieehner's, of Berlin, theatrical specialities.

246/53. Formula for Erasmus Wilson's stimulating

BOOKS WANTED.

Those who are acquainted with books treating on the undernoted subjects will oblige by communicating titles, names of authors, publishers, and, if possible, prices.

248/36. Chemical terminology. Manual required explaining meaning of such terms as para, meta, ortho, alpha, &c. 246/32. Small work on hygiene, including exercise.

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" TANNIC	Lightest crystals
,, ,,	Powder and granulated
CELLOIDINE (Patent)	Gelatine plates
CHLORAL HYDRATE	White cake and crystal
CHLORAL HYDRATE (Liebreich's)	Transparent rhomboidals (factors of Dr. Liebreich's)
CROTON CHLORAL	Shiny crystalline scales. (Po
GLYCERINE	form most objectionable) S.G. 1260, double distilled, liantly white, odourless; lower S.G. and qualities
IODINE	Resublimed, fine scales
IODOFORM, Absolut	Crystals and powder of soft to
PARALDEHYD	* *** *** *** *** *** ***
POTASS. BROMIDE	Fine white dry regular crysta
" PERMANGANATE	Large and small crystals
" IODINE	Fine white dry regular crysta
SODA SALICYLATE, and other Salicylates	White powder and crystals

almost white needles	Freely and entirely soluble in alcohol or water
Bi-sublimed, white, hulky	Ditto ditto ditto.
Vhite, powder, crystallised and dialysed	Dissolves colourless in water or alcohol purest for medicine.
ightest crystals	Dissolves almost colourless in water, alcohol and ether.
owder and granulated	Dissolves freely in water, alcohol, and ether.
Felatine plates	Purest Pyroxylin; inexplosive.
Vhite cake and crystal	See Liehreich's, below.
ransparent rhomboidals (facsimile of Dr. Liebreich's)	Will not decompose by age.
hiny crystalline scales. (Powder form most objectionable)	Free from foreign chlorides.
.G. 1260, double distilled, brilliantly white, odourless; also lower S.G. and qualities	Free from lime, chlorides, metals; will stand severest chemical tests.
Resublimed, fine scales	Purest.
Crystals and powder of soft touch	Purest; made by electrolysis.
*** *** *** *** *** ***	Absolutely purest.
ine white dry regular crystals	Perfectly free from iodide, and the most free from chloride.
Large and small crystals	Chemically pure.
ine white dry regular crystals	Apply Barytic and other tests. This wil never change colour.
White powder and crystals	Freely soluble in water and alcohol.

H. FINZELBERG, of Andernach-on-Rhine.

ERGOTINE, pure Dialysed ... FERRUM OXYD. (5% Dialysed)

PEPSIN PORCI (100%)

Brown colloid, purified by Dialysis

Transparent brown liquid, purified hy Dialysis

White, sweet, odourless powder ...

Free from all saline matter present in the ordinary Ergotine and extracts.

Free from all saline matter. Diluted hy ten times its weight of water, will stand the test of Nitrate of Silver.

Freely soluble in water, not hygroscopic, and will not deteriorate; will dissolve (by Wittstein's test) 100 parts of white of egg and 250 parts of fibrine.

KALLE CO.'S ANTIFEBRINE. PATENT AND JODOL

SOLE WHOLESALE AGENTS-

A. & M. ZIMMERMANN, 6 & 7 CROSS LANE, ST. MARY-AT-HILL, E.C.

For Quotations, &c., apply to Wholesale and Export Drug and Chemical Houses.

LONDON, 1862.



-ASKELL DEACON & CO.

[BRONZE.]

PARIS, 1867



WIDNES,

ENGLAND,

MANUFACTURERS OF

PHILADELPHIA, 1876.



BLEACHING POWDER,

IMPROVED HIGH TEST

[HIGHEST AWARD,]

LONDON, 1885.



(SODÆ BICARB. PULV.),

BICARBONATE OF SODA

(The best preventative of Boiler Incrustation, and the purest and

cheapest form of Washing Soda).

[GOLD.]





REFINED ALKALI SODA ASH

From 25% to 58%.



CAUSTIC SODA, 60% and 70%,

SODA CRYSTALS,

AND

CHLORIDE OF CALCIUM.

ADELAIDE, 1887.



[HIGHEST AWARD.]

TELEGRAPH ADDRESS-" WOODEND WIDNES."

WIDNES. TELEPHONE No. 4.

Dr. J. COLLIS BROWNE'S

AND ONLY GENUINE. ORIGINAL THE

IMPORTANT CAUTIONS

From Lord Chancellor SELBORNE, Vice-Chancellor Sir W. PAGE WOOD. and the LORDS JUSTICES OF APPEAL.

VICE-CHANCELLOR SIR W. PAGE WOOD, by whom the suit in Chancery was first heard, stated in his judgment that 'Dr. J. Collis Browne was undoubtedly the Inventor of Chlorodyne, that the whole story of the Defendant Freeman was as telliberately untrue as the falsehold he had deposed to with reference to the use of his Chlorodyne in the Hospital.'

The VICE-CHANCELLOR also stated, 'that Chlorodyne was a fanciful name, and had application been made sooner. the

Jourt would have given Dr. Browne protection.'

LORD CHANCELLOR SELBORNE coincided with the judgment of the Vice-Chancellor upon this point, and stated that and application been made at a proper time and place, the Court would have found means to restrain the Defendant from misre presenting the decision of the Vice-Chancellor.'

LORD JUSTICE JAMES, on appeal, stated in his judgment, 'that the Defendant Freeman had made a deliberate misrepresentation of the decision of Vice-Chancellor Wood.'

It was proved in Court, on affidavit by Mrs. Forbes, of Paris, that the testimonial published in the Times, November 14th 1365, speaking of the great efficacy of Chlorodyne in Chelera, referred to Dr. J. Collis Browne's Chlorodyne, and that she never ased any other, that she had written to the Defendant Freeman to that effect; notwithstanding which notice the Defendant publishes the said testimonial as referring to his medicine.

The Editor of the Medical Times, in his report on Chlorodyne, January 13th, 1866, gives information that the Chlorodyne seferred to was the medicine introduced by a retired Army Medical Officer, which was Dr. J. Collis Browne; still this is published by the Defendant as testimony to his medicine.

Numerous affidavits from eminent Physicians and others were produced in Court, stating that Dr. J. Collis Browne was the inventor of Chlorodyne, and that when prescribing they mean no other.

The Defendant himself publishes that his compound is in effect and composition quite different to any other preparation;

aevertheless he assumes the name, testimonials, &c., of Chlorodyne.

Technicalities in law prevent that protection which the public should justly nave against such a course of conduct. It is now incumbent on all who purchase Chlorodyne to see that the name, 'Dr. J. Collis Browne's Chlorodyne,' is engraved on the Fovernment Stamp, as it is not sold otherwise. All other compounds under the name of Chlorodyne are spurious. All attempts at analysis have failed; hence the statement that the constituents of Chlorodyne are known is a misrepresentation.

Frazer & Green,

ORIGINAL AND



ONLY GENUINA

FURTHER IMPORTANT NOTICE.

The subjoined list of eminent Firms concur with Vice-Chancellor Sir W. Page Wood's statement in Court, that Dr. Collis Browne was undoubtedly the Inventor of Chlorodyne; and that when Chlorodyne, or the Original Chlorodyne, is ordered, they invariably supply Dr. J. Collis Browne's:-

Glasgow

or one original outloading	o, in orac
Apothecaries' Hall,	London
Allen, Hanbury & Co.,	93
Baiss Brothers,	22
	mingham
Barron, Harvey & Co.,	London
Bell, John, & Co.,	21
Bourne & Taylor,	91
Corbyn & Co.,	33
Cox & Gould,	
Curling & Co.,	23
Curtis & Co.,	23
Davy, M'Murdo & Co.	23
Dobbin, W., & Co., Limited	Belfaen
Drew, Barron & Co.,	London
Drew, B., & Alexander,	11
Dunn & Company,	
Edwards, W.,	F3
Evans, Gadd & Co.,	Exeter
Evans, Lescher & Webb.	London
Ferris & Co.,	Bristol
Foulger, S., & Bon,	London

Grait of Co.	TOTIGOTI
Giles & Son,	Clifton
Goulding, Messrs.	Cork
Gratton & Co.,	Belfast
Grimwade, Ridley.	London
Grindley & Son,	Chester
Hearon, Squire & Francis,	London
Hodgkinson, Tonge & Stead	d, ,, .
Hopkins & Williams,	33
Hovenden, R., & Sons,	"
Hunt & Co.,	Exeter
Hunt, A., & Co.,	22
Johnson, J. H. & S.,	Liverpool
Langton, W., & Co.,	London
Lynch & Co.,	22
Mander, Weaver, Wolve	erhampton
Marsden & Sons,	London
Maw & Son,	- 11
Meggeson & Co.,	11
Mackay, John, & Co.,	E dinburgh
and subsequent confirma	tenes her ti

Morson, T., & Son,
Newbery & Bons,
Cldham, G., & Co.,
Parsons & Richardson
Peake, Allen & Co.,
Raimes & Co.,
Sang & Barker,
Sanger, J., & Sons,
Sim, James, & Co.,
Smeeton, W.,
Southall & Co.,
Statton, W., & Co.,
Tomlinson, Hayward & Co.,
Treacher, Hodgkinson & Co.,
Westrup, J. B.,
Woolley, James,
Woolley, James,
Maller & Branch,
Maller & Branch London Londo: Dublin Leiceste Dublin York Edinburgh London Aberdeen Leeds Birmingham London Tincolr London Kensington London Woolley, James, Wyleys & Brown, Yates & Co., Manchester Coventry London

After these public statements in a Court of Equity, and subsequent confirmation by the trade at large, no Chemist can conscientiously use or sell any other compound for Chlorodyne without committing a breach of faith, unjust to patient and physician. The value of the remedy alone creates the great demand.

Sold in Bottles—1s. 1id., 2s. 9d., 4s. 6d., and 11s. Usual Discount to the Profession.

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(REGISTERED)

As some inquiry is being made what Preparation should be used when Mist. Bismuthi Comp. is ordered in Prescriptions, J. Sellers begs to say he is the Originator and Proprietor of this Compound, which is protected by Registered Trade Mark, it has been known and prescribed by the Medical Profession throughout Great Britain for more than 20 years, and is generally employed by the leading Dispensing Establishments in London. With this information he trusts there will remain no doubt in the minds of Chemists what is intended,

and that imitators will have sufficient sense of justice and honour to withdraw from any further continuance in so discreditable a practice.

The genuine Preparation may be obtained of the principal Wholesale Druggists and Medicine Warehouses in 4-oz., 8-oz., 16-oz. and 32-oz. bottles, or direct from the maker-

ROAD, LONDON, SELLERS,

SPECIAL PREPARATIONS.

ALTERATIVE OR ANTISYPHILITIC COMPOUND.—Formula as given by Dr. J. Marion Sims in the British Medical Journal, composed of Smilax Sarsaparilla, Stillingia Sylvatica, Lappa Minor, Phytolacca Decandra, &c. 4s. per 1b.

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Recommended as a substitute for Liq. Copaib Co., without its nauscousness. 4s. 6d. per 1b.

We shall be pleased to supply samples of these preparations, post free on application.

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We exercise special carc in their manufacture, our brand being now well known throughout the trade, for their high quality and therapeutic value. They will be found most useful in prescribing and also for the immediate preparation of Tinctures, Infusions, and Decoctions. We give the necessary formulae with the dose on each label. In all cases one pint of our Fluid Extract is equal in strength to one pound of the crude material.

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Tabellæ Nitroglycerini, B.P. 1885 (Martindale).

By authority of the Medical Council, the compilers of the British Pharmacopæia have adopted and made OFFICIAL Nitroglyccrino Tablets, as manufactured by W. M. during the last ten years.

The Nitroglycerine is in a perfectly fixed solution in the Chocolate. The Tablets weigh ONLY 2½ grains each, an ounce containing about 170 doses.

They are sold at the following prices:

In Boxes, Retail 2s. 6d. and 4s. 6d. each. ...

For export to hot climates, corresponding quantities are supplied in bottles.

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Also CAPSULES OF IODIDE OF ETHYL covered with Silk, 8 in a Box, Retail, 2s. 6d. NITRITE OF AMYL.

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JER IS HLOROFORW

ANSWERING ALL THE TESTS OF THE BRITISH PHARMACOPCEIA.

ALSO, ANÆSTHETIC ETHER, ALOIN, BEBEERIN, CHRYSOPHANIC ACID, SALICIN

MAY BE HAD FROM ALL THE WHOLESALE HOUSES, AND AT

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WYLEYS &

MANUFACTURING CHEMISTS AND DRUG GRINDERS.

WAREHOUSES, LABORATORIES, & DRUG MILLS, COVENTRY.

private recipes will be forwarded on application.

Our pill department is now a most important branch of our business; and we have a large staff exclusively engaged in pill making. All mixing, cutting, rounding, picking, &c., accomplished with the aid of steam machinery, by which means we attain a uniformity in composition and size such as cannot be equalled by band-work.

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Our coating is well known as possessed of excellent keeping qualities, being thin in substance, soluble, and well adapted to retain the essential oils contained in the plll masses.

For finish, and general good appearance, they will compare most favourably with any in the

WYLEYS' GELATINE-COATED OVAL PILLS.

The only oval gelatine-coated pills of English manufacture in the market. The distinctive colonry of the ingredients contained within them show through the transparent covering, and our gelatine-coated pills are admirably adapted for the elegant administration of single drugs, as well as compound pill masses.

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In addition to sending out the above article in bulk, we are supplying it in Half-pound and One Pound Cardboard Cases, ATTRACTIVE IN APPEARANCE, and labelled without Name and Address.

PRICES.—In Bulk, 42/- per cwt.; Half-pound Packages, 4/- per doz.; One Pound Packages, 7/6 (subject to Patent Medicine Discount).

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AS FIRST INTRODUCED BY OURSELVES.

The Lancet says our Suppositories are "most useful and convenient additions to the Materia Medica"

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COMPRESSED PELLETS.

PRICES. Ammonium Bromide .. grs. 5/ pe. ,, 2/6 ,, 3/9 per oz. ,, 4/6 ,, 5 ,, 5/ ,, 5 ,, 1/8 per lb. 5 ,, 2/6 ,, 5 ,, 2/6 ,, Ammonium Chloride Ammonium Chloride ...
Antipyrin. ...
Antipyrin. ... Phenacetin . . . 5
Potassium Chlorate . . . 5
Potassium Chlorate and Borax 5

 Potassium Bicarbonate
 5
 2/6
 7

 Potassium Bromide
 5
 2/6
 7

 Salol
 5
 1/6 per oz.
 7

 Sodium Bicarbonate
 5
 2/6 per lb.

COMPRESSED PELLETS WITH SACGHARINE. PRICES.

Ammonium Bromide 5 grs. 7/6 per lb.
Ammonium Chloride 3 . . 5/ ..
Potassinm Chlorate 5 . . 4/6 ..
Potassium Chlorate and Borax 5 .. 5/ ..
Potassium Bicarbonate 5 .. 5/ ..
Potassium Bromide . . . 5 .. 6/ ..
Sodium Bicarbonate . . . 5 .. 6/ ..
Sodium Bicarbonate . . . 5 .. 6/ ..
Sodium Bicarbonate . . . 5 .. 6/ ..
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Sodium Bicarbonate . . . 5 .. 6/ ..
Sodium Bicarbonate . . . 5 .. 6/ ..
Sodium Bicarbonate . . . 5 .. 6/ ..
Sodium Bicarbonate . . . 5 .. 6/ ..

Voice Pellets, consisting of Chlorate of Potash, Borax, and a minute proportion of Capsicum, so as to add a slight stimulating effect . 5 .. 6/6 ..

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The above may be had elther in bulk, or put np in metallic boxes, or heart-shaped bottles with white metal screw-caps. A spocial set of descriptive labels (without name) has been complied for these boxes and bottles.

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Extract from "The Veterinary Journal,"
December, 1886.

Messrs. Wyleys & Co. have introduced a description of horse ball which appears to possess several notable advantages which should commend it to veterinary surgeons. These advantages are related to its shape, coating, and the solubility of this coating. The shape is exactly that of an elongated conlcal shot, which gives it the fewest possible points of resistance to entering the pharynx and œsophagus, enabling it to pass easily into the stomach, and reducing to a minimum the possibility of accident. The coating is on Fletcher's patent principle, and being absolutely air-tight, the therapeutic properties of the remedies it envelopes remain unimpaired for any length of time; while the ball is kept sufficiently firm to retain its shape, and is yet pliant enough to. adapt itself to the fingers during administration. In addition to this, the coating is so soluble that it dissolves in less than two minutes at the normal temperature of the viscers, whereby the prompt action of the medicament is ensured, a point of much importance in urgent cases. The elegance and form of the bolus is in striking contrast to the old-fashioned papercovered article, with its flat angular ends, and its too hard or too solt cousistency.

24/ per gross 24/ " " 5.—Astringeut Balls ... " 12.—Condition Balls ... " 6.—Cordial Balls ... , 7.—Cough Balls , 16.—Cough Balls , 17.—Congh Balls ", 17.—Congh Balls
", 8.—Diuretle Balls
", 9.—Fever Balls
", 1.—Physic Balls
", 2.—Physic Balls
", 3.—Physle Balls
", 3.—Physle Balls
", 18.—Physle Balls
", 19.—Physic Balls
", 19.—Physic Balls
", 10.—Tonic Balls
", 11.—Tonic Balls
", 11.—Tonic Balls
", 11.—Tonic Balls
", 14.—Worm Balls
", 14.—Worm Balls

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INHALER

YIELDS a plentiful cloud of Neutral Vapour with little effort on the part of the patient.

Illustrated Prospectus, with the "History of Chloride of Ammonium as a remedial agent," free by post.

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IRON Reduced by HYDROGEN,
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Bronchitis, Hooping & every other form of Cough: Paralysis. Epilepsy. Con-Valsions (ramp & Spasms. Cancers. & every other Skin & Blood discase. & is the safest & most certain) iver Endigestion (ure on the earth. SOLE PROPRIETORS

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Largely replacing the Mitcham Oil, 21/1b.

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ACID. ACETIC. B.P., ACID. ACETIC. 1:040. Pure for Vinegar and Pickles. PEROXIDE of HYDROGEN, for Bleaching Feathers, Hair, Silk, Jute, Ivory, Bone, &c. CRETA PRÆCIP. Very White, Soft, and Light.

PHOSPHORIC ACID, B.P. strength and concentrated, Pure and Free from Arsenic.

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HYPOPHOSPHITES LIME, SODA, CYANIDE of &c. POTASSIUM.

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CALLARD, MORRIS

PONTAMMAN CHEMICAL WORKS,

AMMANFORD, R.S.O., CARMARTHENSHIRE,

ACETIC ACID, P.B., ACETIC ACID FORT., SP. GR. 1.040, OF ACETATE SODA,

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We have received a supply of your "Pure Pepsine Porel," and find that 20 graios dissolve (or digest) three hundred and sixty grains of dry fibrin. This result
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Vours foithfully Also culogled by Dr. LETHEBY io his Lecture before the Society of Arts in London.

PRICES-Pepsine Porci Pur., 2s. per 1 oz.; Pepsine, B.P., 2s. per 1 oz.; Pepsine, best English

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SPECIAL CHARACTERISTICS.—Superior activity in digestive power, purity, freedom from objectionable odour, and good keeping properties have secured for 25 year the confidence and preference for Messrs. Claridon's Preparations by the leading London houses.

Order direct, or through any London firm or Shipping house.

Special discount for 25 ounces and upwards.

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FOR FATIGUE OF MIND AND BODY.

A NEW RESTORATIVE TONIC

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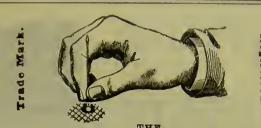
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SEABURY'S

ARE THE BEST.

10 6 3 leaves: ½ 5-yard rolls 84/ per doz. On cloth 84/ 10/ 6/ 3/ 10/ 6 in. 6 in. 12. in wide 100 50 10 leaves; 1 yard 5-yard rolls 60/ On paper 30/ 60/ per doz. 6 in. 12 in. wide Seabury's Half-strength Mustard Plasters on Paper, 10 leaves

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THE IMPROVED MUSTARD PLASTER THAT NEVER BLISTERS THE SKIN.



COOPER'S SINAPINE MUSTARD TISSUE PAPER.

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Relief immediate, cure certain, and comfort, however tight the boot.

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TAL VACCINATION SHIELD,

1/10 PER DOZEN, 1 dozen in a box. Other qualities are 3/6, 7/, & 14/per doz. Adult size, 7/, 11/, & 18/per doz. When selling this Shield, please mention to your eastomer to read directions inside each box lid—to tie the Centre Riobons tight to the Chemise above the shoulder, and the other two round the Arm, not very tight (if they do not get instructions when buying they generally put all four dibbons round the Arm, and the Shields are not made to fix that way). Make sure you get Cowan's, any other will hurt your Sale for this article, and oblige, yours truly,

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3 pint can, japanned, fitted with 6 feet black pure rubber tube and vulcanite stop-cock, with vaginal and rectum tube to plug on.

In card-board box		•••		•••		4/8	cach.
Ditto, with 5-pint		•••				5 -	27
Ditto, fitted with	additional	jets for	eye	ard ea	r, or		
nose			• • •	n	ore	1'-	71
Travelling Douche,	, in shut-up	tin, japa	nncd	case, fi	tted		
with stop cock					•••	5 6	11



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INSTRUCTIONS FOR MEASUREMENT. **JACKET** (in cases of slight deformity)

CIrcumference at axilla.

Circumference at axilla.

Waint.

lups
Length from axilla to great
trochanter.
In severe angular cases circumference over apex of curve, position of ditto, and contour should be given; in lateral cases a description of the case.

In all cases it must be stated if for male or temale.

CERVICAL LACKETS

CERVICAL JACKETS. Same measurements required, and circumference at neck and length from neck to axilla. Any part of the Jacket can in the process of manufac-ture be left soft.

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NEW POISON BOTTLE

HERMES' PATENT.

This Bottle supplies a want which has long been experienced by the Trade for a reliable and inexpensive Poison Bottle. The mouth of Hermes' Patent Poison Bottle is at the bottom of the bottle, and before its contents can be poured out the bottle must be reversed; this action being so entirely novel compels the most thoughtless person to reflect as to its contents.

PRICES, PER GROSS, fitted with Boxwood-topped Corks, complete:-

3-oz., **24**/- ... 4-oz., **26**/- ... 6-oz., **30**/- ... 8-oz., **34**/-

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SPECIAL ATTENTION is ealled to our NEW CRYSTAL BLUE TINTED, being handsome colour and clear glass. We supply them—

3 and 4 ounce \dots 7/9 per gross

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MINERAL WATER. MEDICALS. Plain Egg Shape Soda Any Shape. ... 10 oz. 6 oz. 10/6 2 oz. 4/ Bombay ... 14 oz. 4/9 6/6 PATENTS. VIALS. Codd's Ball Stoppers and Best Rubber Rings. White, Flint, or Green. $\frac{1}{2}$ oz. $\frac{1}{2}$ oz. $\frac{1}{3}$ oz. $\frac{2}{5}$ oz. $\frac{2}{6}$ 3 & 4 oz. 2 dr. 5 oz. ... per gross 12/6 10 oz. ... 6/6 2/6

SAUCE.

Plain, 6 oz., 6/9; Round and Flat, 12 oz., 10/9; Stoppered and Cork Ring, 6 oz., 8/6 gr.; 12 oz., 12/6.

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MELBOURNE, 1880.





PHILADELPHIA, 1876.

ROTHERS,



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LONDON, 1862.

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FEEDING, PICKLE, DRUG, OIL, SAUCE, VINEGAR BOTTLES.

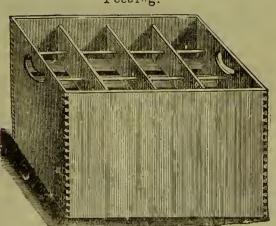


WINE, SPIRIT, BEER, CONFECTIONERY BOTTLES.



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&c.



Mineral Water BOTTLES.

Mineral Water BOTTLES.

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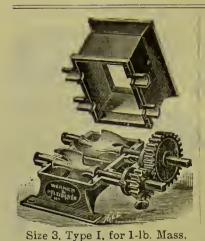
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No. 34 GREAT NORTHERN GOODS STATION, KING'S CROSS, LONDON.





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KNEADING AND MIXING MACHINE MAKING,

Horse Balls, Tooth Pastes, Ointments, Soaps, Powders, and for general Mixing and Incorporating.

REPLACES WITH ADVANTAGE ALL OTHER APPLIANCES FOR THESE PURPOSES.

Made in various sizes, to do from $\frac{1}{2}$ lb. np to 1 ton at a time.

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Will Pulverise, Granulate, or Shred almost any Mineral, Vegetable, or Animal Substance.



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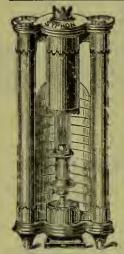
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For Grinding Sugar, Bark, Linseed, Ginger, Pepper, Spices, Salt, &c., this Machine is invaluable.

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Samples of ANY Material will be Ground free of charge.

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NO FLUE REQUIRED. ARE FREE FROM SMELL OR SMOKE.

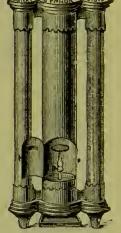
All injurious vapours are reduced to harmless liquid inside the Stove, and passed out at foot into a tray provided for that purpose. FOR USE IN HOSPITALS, SICK CHAMBERS, BEDROOMS, HALLS, CONSERVATORIES, CHURCHES, SCHOOLS, ETC.

Specially suitable for patients suffering from Bronchial affections, as a moist atmosphere is obtainable when required.

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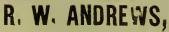
ANDREWS' FILTERS

No. 1, 12/6.

FOR THICK LIQUIDS.

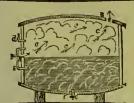
Used Extensively by Manufacturing Chemists and Druggists.

Sent Carriage Paid on receipt of Postal Order or Cheque for 12/6 or 18/6.



Filter Manufacturer, 330 High Holborn, London,





REVOLVING APPARATUS

(Michaelis' Patent).

For further particulars See the Chemists' and Druggists' Diary, 1884, page 274, OR APPLY TO

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WILLIAM TOOGOOD'S SPECIALITIES.

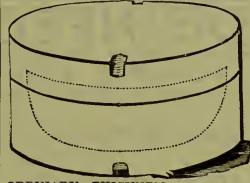
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Are claimed to be the most perfect and convenient yet offered to the Trade.



Owing to the increasing demand for our Patent Pots, we have introduced a Special THIN Series for Dispensing.

These Pots are beautifully glazed and finished, and, being very light, are specially adapted for sending by post.

ORDINARY 1/8 1/6 1/6 THIN for DISPENSING-8/8 5/-1/10 6/- per doz.

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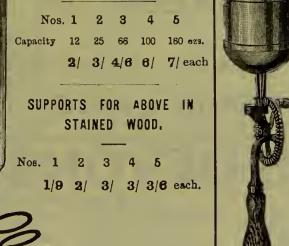
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NORMAN'S PATENT PILL COATER



The cheapest and most efficient machine yet introduced, combining simplicity with portability, and enabling small quantities of pills to be coated with the same facility as large.

It speedily saves its own cost.

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CARBOLIC PINK POWDER, 5/-, 7/6, and 10/- per cwt., in bags or casks.

HANDSOME LARGE DECORATED BLACK AND GOLD TIN BOXES,

Holding 1½ lbs. (usual 1/- size), 3/- doz. Ditto, LARGE SIZE (usual 1/6 size), holding about double quantity, 4/6 doz.

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1 dozen, 13/6 Per doz. net in 12/6 CARRIAGE PAID.

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FOR HORSES, COWS, SHEEP, AND LAMBS.

THESE CATTLE Oils are prepared from the Original and Valuable Recipe of WILLIAM YOUATT PINE, and are unsurpassed, their great sale being a sufficient guarantee of their EXCELLENCE.

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THE "NORFOLK" CONDITION DRENCHES, for Cows, Fattening Bullocks, Sheep, and Pigs

THE "NORFOLK" CORDIALINE or PAIN KILLER, for Horses, Neat Stock, Sheep and Lambs <u>1</u>-doz. eases, 6/-; 1 doz., 12/-; 3 doz., 31/6 8/-; 24/-; .. 8/-; .. 24/-With usual cash discounts at all London Medicine Houses.

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KILLER"

extant, retaining its properties for any length of time, in any climate.

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"SIR,-You can with confidence recommend 'HUNTER'S VERMIN DESTROYER.' It is the best thing I ever used, having often cleared stackyards with it of both rats and mice in a day or two."

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removes Splints, Curbs, or Bony Formations; and the safest and most ^effectual cure for Bone-spavin, Ringbone, and Side-bone, without leaving any mark or blemish, entirely superseding "firing."

From Mr. MATTHEW DAWSON.

The Celebrated Trainer.

"Manor House, Exning, Newmarket, May 21st, 1836.

"Sir,—I have tried the 'OSSOLINE' with excellent effect, and I think it the best remedy for Ourbs, Splints, and other bouy excrescences 1 have used.

"Yours truly, M. DAWSON."

From Mr. W. GILBERT.

"Park Paddocks, Nowmarket, March 3rd, 1888.

"Gentlemen,—I have found your 'OSSOLINE' very efficacious when I have had occasion to use it on Splints or Ourbs, and can cordially recommend it.

"Yours truly, W. GILBERT."

From Captain T. C. P. CALLEY.

"Regent's Park Barracks, London, N.W., Feb. 29,1888.

"Sir,—I have much pleasure in testifying to the efficacy of your 'OSSO LINE.' I used it for a very large splint just below the knee, inside, on a young carriage mare, which it entirely removed in about a fortnight, although the mare was worked all the time.—Yours faithfully,

"T. C. P. CALLEY, Captain, 1st Life Guards."

"Belle Ville, Ashtown, Dublin, Jan. 23rd. 1888.

"Dear Sirs,—I have much pleasure in bearing testimony to the efficacy of your 'OSSOLINE.' I have used it on Curbs, Splints, and other kinds of bony enlargements, with the greatest success, and have no hesitation in strongly recommending it.—Yours faithfully,

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Methylated Spirit and Finish; Finest Orange Wine, Sherries, and Malagas for Medicated Wines.

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PURE GRAIN SPIRIT 56 O.P., B.P.... 18/5 Do. DOUBLE DISTILLED 18/9

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SAMPLES FREE.

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We are prepared to supply METHYLATED SPIRIT in small quantities at 2/8 per gallon.

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THE OLDEST AND MOST SUCCESSEUL.

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